

1 randomization possibly being problematic. I mean,
2 every study that I'm involved in, I can actually
3 produce a randomization table to show you how the
4 study -- how the subjects were going to be allocated.

5 Doesn't the sponsor have the original
6 randomization table that would show that this
7 unfortunate streak is part of --

8 MR. KOTZ: Right. In this study,
9 unfortunately, was randomized. They did not use block
10 randomization. And the randomization was done with
11 envelopes. They were just -- the Company was given a
12 stack of envelopes, and they were just identified --
13 the envelopes were just identified as to age and to
14 treatment.

15 I mean, the numbers were calculated by age
16 and treatment, but they were just given a 30 --

17 DR. D'AGOSTINO: But when I -- like I
18 said, when I mastered the randomization, I do stuff
19 things in the envelopes. But I also have a list of
20 what went in the envelopes.

21 MR. KOTZ: I don't know. That I have no
22 idea. I would have to check with the Bio and Research
23 Monitoring Group who **checks these** -- premonitors these
24 studies. And I want -- as far as the randomization
25 goes, I want to, you know, clarify the record --

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 200053701

(202) 234-4433

www.nealgross.com

1 correct the record.

2 It was on the Alabama site, which had 11
3 patients in a row which were randomized to CryoGen --
4 wait, I'm doing it again. It was Alabama, which had
5 13 out of the 14 patients randomized to CryoGen, and
6 the Denver site, which had 11 patients in a row
7 randomized to CryoGen.

8 DR. BLANCO: Are you sure you don't want
9 to wait until after lunch to make sure that's correct?
10 Let me clarify -- I want to go back to what Dr.
11 D'Agostino brought up, because I'd like to hear an
12 answer for this afternoon.

13 And I think what he's saying -- and I
14 don't believe I heard a good answer from you. I'm
15 sorry, and maybe the Company needs to address this.
16 But I think what he's saying is -- I mean, yes, you've
17 got envelopes. What did you do, shuffle the
18 envelopes'?

19 No, you usually stuff the envelopes based
20 on some sort of list that a computer prints out that
21 gives you a set of random numbers. I think what he's
22 saying is, you know, if we're questioning whether the
23 randomization was altered, which might alter the
24 results of the study, then one way to answer that
25 would be to say, "Hey, here was our randomization.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 And it came up with that particular bad break of 11
2 patients in a row being put in one group."

3 so I think I still would like to see that
4 addressed this afternoon. Okay? When we come back.
5 so either by the FDA or by the Company, whether there
6 is some documentation that we had a roll of 11 that
7 all went in to one group. Is that fair enough, Ralph?

8 DR. KATZ: This is just a quick
9 interpretive question follow up to -- if we're going
10 to revisit power. How success is defined by a self-
11 evaluation PBAC score of 75, and how do we take into
12 account the natural variability and self-
13 interpretation as a criterion for success?

14 Perhaps that can come up in the wash when
15 we talk about power after lunch.

16 DR. BLANCO: Okay. Let's bring that up,
17 but I'm not sure there's an answer right off the bat,
18 other than it's a validated system. But we can bring
19 that up. That's more discussion. Barbara -- Dr.
20 Levy.

21 DR. LEVY: I have two questions. One is
22 the temperature probe data that were done in
23 hysterectomy. Were those patients pre-treated with
24 Lupron? They were not. So my question is, is that a
25 valid assumption for patients who are pre-treated, the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 endometrium is thinned, and can we have confidence in
2 those temperature data. So that's my first question.

3 The second one is of interest that one of
4 the sites with the very lowest success rates was also
5 the site, I think, that was done in office. And
6 presumably, therefore, the site that was done with
7 most of the local anesthetic, or local with sedation.

8 And so I have some concerns about making
9 any statements about anesthesia requirements when it
10 appears that the site using less anesthetic, using the
11 local anesthetic and the local with sedation, may
12 indeed have much lower success rates. And I'd like to
13 hear some comment and discussion about that.

14 DR. BLANCO: All right. Let me -- we're
15 really kind of getting into discussion, I think, more
16 than issues of fact. So unless somebody else has a
17 question specific for clarification of an issue of
18 fact, which I don't see, let's bring that up during
19 the discussion session and we'll try to address that.

20 It's 12:00 noon. Let's have a 45-minute
21 lunch. We will meet back and start promptly at 12:45.
22 Thank you.

23 (Whereupon, the foregoing matter went off
24 the record at 12:02 p.m. and went back on
25 the record at 12:55 p.m.)

A-F-T-E-R-N-O-O-N S-E-S-S-I-O-N

(12:55 p.m.)

DR. BLANCO: All right. We're going to go ahead and start the afternoon session, and the first item of the afternoon session is the Panel deliberations.

But this is what we're going to do for the afternoon. We're going to ask the Company and FDA to go over the questions that were brought up in the morning and see what answers they were able to put together. Then we're going to go over all the questions that the FDA would like the Panel members to address. We'll just go through them, read them, so that we know all of the different items. And then we'll go back and discuss each question, item by item.

We will then open the forum again for the public to make comments, the Company to make some comments. Then we'll come back. We'll go over the voting options and the definitions of the different issues, and then we'll take a vote, and we'll call it an afternoon. And probably we'll have a break in there somewhere in between. Okay?

So let's go ahead and start with the issues that were brought up, questions from this morning. And this is just the order in which I wrote

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, DC. 200013701

(202) 234-4433

www.nealgross.com

1 them down, but the first question that was brought up
2 was the issue of adverse effects and whether there was
3 a preponderance of the adverse effects at the two
4 sites that seemed to have a different rate of success
5 than the other sites.

6 MR. LEWIS: Hello. My name is Steve
7 Lewis. I'm a consulting statistician. I have no
8 financial interest in the Company other than a fee for
9 service agreement. Over the lunch break, we took a
10 quick look at the adverse events, and what I can tell
11 you is we see no indication that there is a
12 preponderance of adverse events in the two sites that
13 had the lowest adverse event rates.

14 DR. BLANCO: That had the lowest --

15 MR. LEWIS: I'm sorry, that had the lowest
16 success rates. I'm sorry.

17 DR. BLANCO: Okay. Let's see, whose
18 question was that?

19 MS. YOUNG: That was mine.

20 DR. BLANCO: Okay. Any other issues you
21 want to follow up on that, Diony? No, okay. All
22 right, thank you.

23 The second question that I had was Dr.
24 D'Agostino's issue about the control arm had an 85
25 percent expected success rate the way the study was

1 designed. Does the fact that the control arm achieved
2 a lower success rate in the actual clinical study
3 alter the statistical analysis? Did I say that right,
4 Ralph?

5 DR. D'AGOSTINO: Yes.

6 DR. BLANCO: Okay.

7 MR. LEWIS: Steve Lewis again. The
8 powering of the study was based on efficacy of
9 valuable patients, not on intention to treat. If you
10 look at the success rate based on efficacy of
11 valuable, I believe it's about 81 percent for the
12 rollerball group, and we believe that's consistent
13 with the modeling assumptions and what's known about
14 the procedure.

15 DR. D'AGOSTINO: That's right. And I
16 guess the question I was raising, and I think that's
17 the appropriate answer for this particular setting,
18 but I think in terms of the Panel and the whole notion
19 of these non-inferiority trials or equivalency trials,
20 that not only do you want to have some priority
21 statement about the delta but also about the expected
22 rates and the intent-to-treat population is usually or
23 quite often the population that people are thinking
24 about, at least statisticians, in terms of their
25 computations. so I don't fault you for what you

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 200053701

(202) 234-4433

www.nealrgross.com

1 presented. I think what you presented was fine. I'm
2 just raising a bigger question in terms of how to
3 interpret these type of studies.

4 MR. LEWIS: Thanks. We'll note that for
5 future trials.

6 DR. BLANCO: All right. Thank you.
7 Anything else, Ralph?

8 DR. D'AGOSTINO: No.

9 DR. BLANCO: Okay. The next question that
10 I had from the morning was the issue of the
11 temperature data where we're referring specifically to
12 where the probes were on the outside of the uterus and
13 temperature was not shown to vary, and the fact that
14 those patients did not have Lupron pre-treatment
15 versus the patients that were undergoing the actual
16 clinical procedure did seem to have the Lupron pre-
17 treatment.

18 DR. DULEBA: I will answer this question.
19 My name is Antoni Duleba. I am from Yale University.
20 I do not have any financial interest in the Company,
21 but I have been reimbursed for participating in this
22 meeting.

23 I think there are two answers or two
24 reassurances that we can provide with regard to the
25 thermal effect of the instrument in clinical trials.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 First is that indeed in spite of a fairly large number
2 of patients treated during the trial and subsequent
3 number, around 300, commercial treated with this
4 device, there was not a single report of injury
5 suggestive of thermal damage to the serosa or
6 surrounding organs.

7 The second piece of reassuring information
8 is from the fact that we observed, actually, the front
9 of the ice under the ultrasound, which is a unique
10 feature of the freezing procedures in contrast to the
11 heating procedures where we really are not sure how
12 far the heat penetrates. So those are the two
13 indirect but quite reassuring pieces of information I
14 can offer.

15 DR. BLANCO: Barbara? Dr. Levy?

16 DR. LEVY: Yes. I think with respect to
17 this particular device and this particular trial, I
18 think you're probably correct. I think some of your
19 data are showing us that via ultrasound monitoring
20 will vary in clinical use. I think that that's clear
21 just looking at your study sites. And we have to
22 assume that your study sites are the best of the best
23 and that when this thing gets out there on the market
24 it will be probably used in less than ideal
25 circumstances. So I'm a little less reassured by

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, O.C. 200053701

(202) 234-4433

www.nealrgross.com

1 that.

2 The fact that you've treated somewhere
3 close to 200 patients without an adverse event is
4 nice, but from a scientific standpoint, when we're
5 trying to demonstrate clinical safety, clinical safety
6 should be tested under the same circumstances in which
7 the device is going to be used. And I think that's
8 very, very important for us when we're looking at
9 things. If it was tested under conditions that are
10 different than the conditions under which they're
11 going to be used, that raises a question.

12 DR. DULEBA: I can add one piece of
13 information. It's extremely important, of course, to
14 be as close to real life in testing, but in those
15 particular patients who were treated prior to
16 hysterectomy, it would have been very difficult to
17 convince patients to undergo yet another therapeutic
18 intervention, i.e. getting Lupron, months prior to the
19 procedure.- so for those reasons, it was chosen not to
20 do so. But, indeed, this is a limitation of the
21 design of these kind of studies. Thank you.

22 DR. BLANCO: Again, let me address the
23 issue, and I don't think that there's any answer that
24 you can provide at this point. But I agree with Dr.
25 Levy. One of my concerns has to do with how the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, O.C. 200053701

(202) 234-4433

www.nealrgross.com

1 machine or the device will eventually be utilized.
2 you know, you're advocating and you have data for a
3 four-minute freeze, thaw, six-minute freeze on the
4 other side. But your machine has a fail-safe that is
5 after ten minutes. And you have evidence already
6 during your clinical trial that the four-minute, six-
7 minute freeze was not totally utilized, that some
8 clinicians let the machine go longer, because the
9 temperature was not low enough.

10 And also I've heard several times folks
11 mention, well, you've got the freeze ball. You want
12 to take it all the way till you're a millimeter or two
13 from the serosa surfaces. To me, in terms of eventual
14 approval of the machine and something that I'll bring
15 up in the discussion, that's of concern, because it
16 seems like there's a whole lot of different endpoints
17 that the clinician who's eventually going to use this
18 machine could potentially utilize. And, yes, you've
19 got some data to show that in a non-pre-treated uterus
20 at four and six minutes of freezing you're okay, but
21 in a non-pre-treated uterus and a ten-minute freeze
22 that someone might receive might not be okay. We
23 don't know. It might be perfectly fine.

24 DR. DULEBA: Absolutely.

25 DR. BLANCO: So just -- I'm just bringing

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234433

www.nealrgross.com

1 up the point that there's some variability here, and
2 I think what's going to happen is that there's going
3 to be a big issue in terms of labeling and how the
4 procedure and the how the physician is instructed to
5 utilize the machine.

6 DR. DULEBA: Certainly. May I address
7 some of those concerns, because I have also very
8 similar thoughts about it. First, I want to point out
9 that even when we look on the four and six-minute
10 freeze patients, the success isn't what we expected.
11 But beyond that, the way I would like to look at
12 cryoablation is as we look at any surgical tool, that
13 indeed can be misused, but the advantage of using it
14 as a surgical tool is that it also offers, on the plus
15 side, flexibility. And this means, for example,
16 addressing issue of smaller uteri, which was mentioned
17 by the Panel, that indeed if the uterus is smaller
18 than average, freezing can be stopped sooner because
19 of ongoing in real-time observation of the size of the
20 ice ball. In the same way, if the uterus is
21 particularly large or when the ice ball does not grow
22 sufficiently, one may choose to prolong it and use
23 clinical judgment in the same way as when you use
24 scalpel.

25 DR. BLANCO: No, I know, but you're

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHOOE ISLAND AVE.. N.W.
WASHINGTON. D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 actually making my point.

2 DR. DULEBA: Yes, yes.

3 DR. BLANCO: Because my point is not one
4 of efficacy. My point is one of safety. So you're
5 making the point that you think there can be
6 variability of the physicians. Well, the point I'm
7 trying to make is that that wasn't how the study was
8 designed and that in the labeling of how the
9 physicians are supposed to use it, those very issues
10 have to be addressed.

11 We're going to get into discussion later
12 on. Unless you have an answer of fact, and I think .
13 that you don't at this point, let's just keep going on
14 there. Write it down, and during the public session
15 we'll go with that. So I just bring that up, and I'll
16 bring it up in the discussion again, because I think
17 it's important for labeling in terms of physician
18 training and physician usage of the device.

19 The fourth point, again, Dr. Levy, was the
20 anesthesia, and one of the issues was mentioning that
21 there was less anesthesia required, or less invasive
22 anesthesia required -- I'm sorry, I forgot exactly how
23 it was worded -- for the cryo. And one of the
24 questions was, well, did that difference come about
25 because of the in-office site having more cryo

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, O.C. 200053701

(202) 234-4433

www.nealrgross.com

1 patients than rollerball?

2 MR. MURRAY: Yes, Dave Murray, CryoGen.
3 I'm going to ask Dr. Townsend to address this. If
4 it's all right with the Panel, I might ask him to also
5 address the issue of peri-operative pain and cramping
6 so that it's a somewhat related topic and save us up
7 and down. Thanks. Dr. Townsend?

8 DR. TOWNSEND: Dr. Duane Townsend, Park
9 City, Utah. I do private practice at Park City and
10 also in Salt Lake City. I get reimbursed for my time
11 from the Company, and I believe I have a small
12 interest in the Company, but I'm not positive. Sounds
13 odd but it's true.

14 The question of anesthesia comes up, and
15 I know in the studies that we were -- had the
16 opportunity to treat the most number of patients by
17 freezing and also by REA, and I've treated a large
18 number of REA patients, the issue about office therapy
19 and such -- Paul Inman, who is depicted on the video,
20 did all his patients in the office, and his success
21 rate was comparable to all of ours -- in the high
22 70's.

23 I can't give you the uniqueness of the
24 Alabama results, and I've not had a chance to talk to
25 the individual why his results were what they were,

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, DC. 20005-3701

(202) 234-4433

www.nealrgross.com

1 but certainly you can do this in the office. Inman
2 has demonstrated this. It can be done safely and
3 effectively with minimal degree of patient discomfort.
4 The patient you saw on the video actually was awake.
5 And the patients that we did at LDS Hospital were done
6 in the operating room, but they were done under
7 conscious sedation half the time. We could converse
8 with them. They did not complain of significant
9 degree of pain or cramps.

10 Now looking at the question about do the
11 patients with cryoablation and REA have more or less
12 pain --

13 DR. BLANCO: I'm sorry, let me interrupt
14 you for a second.

15 DR. TOWNSEND: I'm sorry, yes.

16 DR. BLANCO: Because I don't think that
17 was Dr. Levy's question, and I think we got it
18 answered. The question that I believe she was
19 addressing was, was there a difference in the type of
20 anesthesia utilized by site so that some sites that
21 would have predominantly offered only local and non-
22 general anesthesia do more cryo patients, okay, and
23 therefore altered or biased the results towards cryo,
24 quote, unquote, "needing" less general anesthesia. Am
25 I following that up correctly, Dr. Levy?

1 DR. LEVY: Well, clearly, the site in
2 Alabama, which I think was one of the Company's
3 explanation for that low success rate was that it was
4 an in-office or a site in which things were being done
5 in-office. Hypothesis explanation, whatever. I think
6 that one of the issues about doing things in-office is
7 that you're doing them under local anesthetic. I have
8 a real issue with the whole conservation regarding
9 anesthesia in that it wasn't randomized, it wasn't
10 really designed to be studied in the first place, and
11 perhaps the cleanest thing we could possibly do with
12 the anesthesia thing is just drop it, because I don't
13 think that's it's clean at all, and it clearly wasn't
14 part of the study design in the first place, and there
15 is definite differences among sites.

16 DR. BLANCO: Do you understand. The issue
17 is whether you can -- the product or the device can
18 make a claim that they require less general
19 anesthesia, okay? And that's the point we're getting
20 at, that if you're going to make that claim and the
21 study wasn't designed to make that claim, and could
22 there have been bias by certain areas having more
23 cryotherapy where they normally wouldn't have had
24 general anesthesia available. Is that clear?

25 DR. TOWNSEND: Well, yes. All the REAs

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 200053701

(202) 234-4433

www.nealrgross.com

1 are done under general and in my experience rarely
2 under conduction, which is the other choice. Half the
3 patients that we did at LDS, which is 50 were done, I
4 believe, under conscious sedation, the issue about
5 physicians therapy, I think, is -- I don't have an
6 answer for that.

7 There are physicians in the U.S. who will
8 do patients in their office. They're very skilled at
9 it, and it's an individual situation. Dr. Inman is
10 very good at it, his patients did extremely well, and
11 he had no particular problems with that. And this is
12 as far as I can go with it. I think the other area,
13 Dr. Heppard also treated a large number of patients,
14 and about half of hers, I believe, were under
15 conscious sedation as well.

16 DR. BLANCO: Thank you. You were going to
17 address an issue of pain?

18 DR. TOWNSEND: The issue of pain. When
19 the patients would undergo the cryoablation, we'd ask
20 immediately how do they feel, and the majority of
21 patients would remark, "Well, I have a cramp." This
22 would be called an adverse event. Invariably, this
23 would be controlled with ibuprofen, did not require
24 any significant degree of narcotics in my experience.
25 The REA patients almost invariably went home with,

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE.. N.W.
WASHINGTON. D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 say, Vicadin or a strong narcotic than the so-called
2 ibuprofens. So the degree of pain was substantially
3 less in the cryo patients.

4 DR. LEVY: George?

5 DR. BLANCO: Yes.

6 DR. LEVY: I'd just give you a personal
7 comment. I have never sent ablation patient home with
8 REA with anything other than ibuprofen, and my
9 patients do fine.

10 DR. BLANCO: Understand.

11 DR. TOWNSEND: I understand. Ours
12 apparently require more pain medication.

13 DR. BLANCO: Well, we appreciate the
14 opinions, but the reality is what I think we were
15 trying to get was at the numbers from your study, and
16 we still haven't received that. So if you guys want
17 to try to put that together, otherwise I think our
18 discussion of anesthesia is going to be pretty
19 limited. Thank you, Dr. Townsend.

20 You had some slides, you said, that you
21 wanted to show, Mr. Murray?

22 MR. MURRAY: Dave Murray, CryoGen. Yes,
23 there was a comment earlier on about the results being
24 unknown for patients who had protocol variations, and
2 5 we wanted to address that.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE.. N.W.
WASHINGTON. O.C. 20005-3701

(202) 2344433

www.nealrgross.com

1 DR. BLANCO: Please go on.

2 MR. MURRAY: Is this the -- yes, I think
3 you can see here that the two groups that were those
4 that were within the protocol, the four and six-minute
5 on the left, and the protocol deviations on the right
6 are essentially equivalent. So we were not able to
7 detect -- and if we need to go into deeper, we can
a have the statisticians do so -- we were not able to
9 detect a difference between the groups.

10 DR. BLANCO: All right. Great. Thank
11 you. Were there any other questions that I left out
12 that the Panel members had before we proceed on?

13 DR. D'AGOSTINO: About the randomization.

14 DR. BLANCO: I'm sorry?

15 DR. D'AGOSTINO: The question on the
16 randomization, that do they actually have the
17 randomization tables.

18 DR. BLANCO: Right. Thank you.

19 MR. LEWIS: Steve Lewis. Short answer,
20 yes. A master randomization list was generated using
21 software. The envelope treatments were assigned
22 according to the master randomization list. It has
23 been retained, and it's available for inspection by
24 FDA.

25 DR. BLANCO: Do you know offhand whether

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 that run of 11 patients on the cryo was generated by
2 the computer randomization?

3 MR. LEWIS: Yes, it was.

4 DR. BLANCO: All right. Thank you.

5 MR. LEWIS: You're welcome.

6 DR. BLANCO: Dr. Janik?

7 DR. JANIK: I have some questions
8 regarding ultrasound. It seems like ultrasound's one
9 of the key features here as far as safety, that you
10 use it for monitoring for safety, and for efficacy in
11 that if placement's not correct, as in the Boston
12 group, the efficacy seems to go down.

13 Where I'm a little unclear is at the
14 different sites, what kind of ultrasound situations
15 were present? Were there ultrasonographers that were
16 the second person? Were all of the MDs ultrasound
17 certified? What type of ultrasound needs are there?
18 And are there certain types of patients that can't be
19 imaged adequately -- the obese patient, the
20 retroverted uterus? Are you always able to see the
21 ice ball? These seem to be some key questions in
22 order to really say that it's safe in all
23 circumstances. And this leads then into the training
24 circumstance. Should it be an MD ultrasound team that
25 goes through the certification?

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 2344433

www.nealrgross.com

1 MR. MURRAY: Dave Murray, CryoGen. 'I just
2 want to make one point about ultrasound at the one
3 site that had poor outcomes. It was not the absence
4 necessarily of a sonographer but the absence of an
5 extra pair of hands that we believed and we
6 hypothesized with the agency might be the case.

7 This was a small study, so you can't say
8 this conclusive, but there was a succinct difference
9 in the technique of that physician in that he used one
10 hand to hold the ultrasound transducer and the other
11 hand to hold the probe. And we learned later on in
12 the study that it was important, or it appeared to be
13 important, to maintain traction on the tenaculum as
14 one of those intricacies of technique to make sure you
15 stay at the fundus. Unfortunately, with only one hand
16 he was unable to do that and actually didn't know we
17 should be doing that early on in the study. So we
18 think it's more an issue of number of hands.
19 Actually, that physician, if you know it from the
20 book, is a very skilled sonographer.

21 DR. BLANCO: All right.

22 DR. SHIRK: I don't. think he addressed
23 Grace's other question, though, and that's basically
24 a credentialing process and the fact that this really
25 is a two-person procedure, not a one-person procedure.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(2 0 2) 234-4433

www.nealrgross.com

1 And how should the credentialing be handled as far as
2 -- the training as far as the sonographer physician
3 together, because it's obvious that from what your
4 recommendations are that you have a sonographer. And
5 the question would be basically whose expertise are we
6 using, the physician's expertise or the sonographer's
7 expertise?

a MR. MURRAY: I'd like to hand that
9 question to Dr. Duleba.

10 DR. DULEBA: Antoni Duleba from Yale
11 again. I can answer parts of the question.
12 Obviously, I wasn't present at other sites, and I know
13 only from what I heard from investigator meetings when
14 we met towards the completion of the study and from my
15 personal experience.

16 The issue indeed is that we need a third
17 hand rather than a second person, and I had resident
18 or a nurse holding ultrasound transducer in position,
19 which I directed the person to, and it was more than
20 satisfactory. However, I did need at the same time
21 two hands to hold the uterus tenaculum attached to the
22 cervix while at the same time positioning the probe
23 appropriately. I don't believe that skilled
24 sonographer is helpful, but -- I should reword it. I
25 do believe that somebody who performs the procedure

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 200053701

(202) 234-4433

www.nealrgross.com

1 should have understanding of sonographic pictures. If
2 that person does not have that understanding, then
3 they would need a second person who is skilled
4 sonographer.

5 So, indeed, in either way, there's a
6 person needed who can interpret what they see, but it
7 doesn't require two people. It requires three hands.

8 DR. JANIK: So I think the key is that in
9 the labeling, it needs to be emphasized that you need
10 to have ultrasound ability to do this procedure.

11 DR. DULEBA: Yes.

12 DR. JANIK: And I don't think necessarily
13 it's that emphasized in what exists. Also, are there
14 any types of patients that can't be imaged well with
15 this seeing the ice ball? Any technical --

16 DR. DULEBA: Obviously, there are
17 variations in the quality of the image. Very obese
18 patients present poorer quality image, but not to the
19 extent where it would prevent one from seeing the ice
20 front or the front of the cryozone advancement.
21 Patients where -- we made sure that all patients had
22 full bladder, of course, in the beginning of the
23 procedure. In patients who did not have a full
24 bladder, we had to insert a -- to fill up the bladder
25 in order to create the acoustic window to adequately

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 200053701

(202) 234-4433

www.nealrgross.com

1 see it. But I am not aware of variance of anatomy
2 which would preclude visualization.

3 DR. JANIK: So placement of the probe is
4 always possible.

5 DR. DULEBA: Yes.

6 DR. BLANCO: All right. Let's go ahead
7 and move on, because we're really getting into a
8 discussion, and we'll need to bring that up.

9 What we're going to do now is read very
10 quickly through the discussion questions and then
11 tackle them one by one. And I think we'll see that a
12 lot of the issues that are being brought up now about
13 the ultrasound we need to discuss in number 7.

14 All right. The first question is --
15 safety and effectiveness is the first area. The first
16 question is: Design changes have been made to the
17 device in response to malfunctions experienced during
18 the clinical trial. Malfunction rate, 26.5 percent.
19 Has the sponsor adequately addressed the issue of
20 device reliability? If not, what additional studies,
21 non-clinical or clinical, does the Panel recommend to
22 validate the commercial design? Should the labeling
23 incorporate information regarding failure rates or
24 potential need for multiple units?

25 Number two: In the clinical protocol the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, O.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 procedure was to involve one four-minute freeze and
2 one six-minute freeze in opposite cornua of the
3 uterus. In the clinical trial there were several
4 instances of additional or longer freezes being
5 performed, mostly secondary due to device malfunction.
6 Is the standardization of the procedure, i.e. number
7 and duration of freezes, critical to device safety and
a treatment success? Should the device be designed to
9 assist the investigator in performing only the number
10 and duration of freezes specified in the clinical
11 trial protocol?

12 Number three: There was a wide range of
13 success rates among the clinical sites. Randomization
14 also varied among the sites. Do you have any
15 recommendations for training or labeling to achieve
16 more uniform success rates?

17 Number four: The 12-month success rates
18 below satisfy the sponsor's statistical hypothesis.
19 Do these results show that the device provides
20 clinically significant results? And we have a table
21 which I'll let you look at, and we'll bring that up
22 when we're discussing this specific question.

23 Number five: Was the incidence of adverse
24 events in the treatment arm, e.g. pain, cramping, and
25 bleeding, acceptable? Please comment on any

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHOOE ISLAND AVE., N.W.
WASHINGTON, O.C. 200053701

(202) 234-4433

www.nealrgross.com

1 additional information needed to better understand the
2 adverse effects.

3 Under the heading of labeling, number six:
4 Is the proposed labeling adequate? Do you have
5 recommendations for changes or additions to the
6 labeling -- A, user's manual, attachment F of the
7 Panel review package, and B, patient brochure,
8 attachment E of the Panel review package?

9 Training programs, number seven. Please
10 identify aspects of physician training which you
11 believe are important, i.e. patient selection, patient
12 counseling, risk to pregnancy, duration, number of
13 freezes, use of ultrasound, troubleshooting if the
14 device malfunctions. Should there be hands on
15 practice with a proctor for a specific number of
16 cases? What are the specific skills necessary to
17 successfully perform this procedure?

18 Post-market study, number eight? Under
19 current FDA guidance, patients from the pivotal study
20 are scheduled to be followed for a total of three
21 years after the procedure -- one year pre-market, two
22 years post-market. Is the proposed follow-up plan
23 adequate to address issues of long-term safety and
24 effectiveness?

25 Okay. Let's go back and put question

1 number one up on the board. Safety and effectiveness.
2 Question number one: Design changes have been made in
3 response to malfunctions experienced during the
4 clinical trial. Has the sponsor adequately addressed
5 the issue of device reliability? If not, what
6 additional studies, clinical or non-clinical, does the
7 Panel recommend to validate the commercial design?
a And should the labeling incorporate information
9 regarding failure rates or potential need for multiple
10 units?

11 Any Panel member would like to begin the
12 discussion? Dr. Levy?

13 DR. LEVY: Do you have any data to show us
14 -- once you've incorporated all these changes as time
15 went on, do you have the last 25 or the last 50 cases
16 that you could demonstrate to us that with these
17 changes there's indeed been an improvement, so that
18 we're not looking at 25 percent of the overall, but
19 let's look at the last 50 cases or the last 30 cases,
20 whatever you have, after all of your changes have been
21 incorporated?

22 MR. MURRAY: Well, I have two parts to
23 that answer. Dave Murray, CryoGen. We do not have 25
24 cases after all the changes have been made. What we
25 do have is -- and I told you I might allude to this --

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 2344433

www.nealrgross.com

1 commercial experience where we look at our complaint
2 database. We told you earlier that 16 of the 18 root
3 causes were followed up with a corrective action, and
4 that those corrective actions or changes in either
5 product or process were validated. And I want to
6 emphasize that these changes did not change the
7 performance of the device. They have to do with
8 changing materials used to build it to eliminate
9 potential sources of contaminants, et cetera.

10 But in those 16 that have been validated,
11 there are zero complaints from the field in our
12 commercial experience that have any of those issues as
13 a source. We have two root causes that we are
14 currently in the process of validating, and we believe
15 we should expect the same kind of result from those as
16 we might expect from our current validation. We
17 identified -- the clinical setting was a great place
18 to identify issues that we certainly wish we had
19 identified earlier, but we were able to validate and
20 correct -- correct and validate those following that.

21 DR. BLANCO: Mr. Murray, what do you mean
22 by validating. Dr. Levy is asking what data do you
23 have that the new machine does not have the same
24 problems? What do you mean by validation?

25 MR. MURRAY: We are running a validation

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealgross.com

1 trial of the system. We did one earlier on that
2 incorporated those 16 and ran at, I think, as Mr. Reu
3 told you, for what would be estimated to be a year's
4 life. And so this has to do with service interval.
5 We are in the process of running a second validation,
6 again, trying to predict service life of a system with
7 all of those in it, and we run that under test
8 conditions that are more severe than could be
9 experienced in the clinical setting. We can put
10 greater heat loads on the system, and we can force it
11 fail earlier than it would ever fail, if it were going
12 to fail, in a clinical setting.

13 DR. BLANCO: Please don't misunderstand
14 me. You've been very responsive, and the FDA's even
15 commented that you've been very responsive to the
16 problems or issues. But the question still remains,
17 in my mind, have you taken the new machines that are
18 supposed to have the problem fixed -- and I apologize,
19 I'm a simple guy, okay -- the new machine that have
20 had the problems that were identified fixed and then
21 put them out in the field and had actual clinicians
22 use them on patients and see whether they ran into
23 problems or not?

24 MR. MURRAY: We do have commercial systems
25 in the field being --

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, O.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 DR. BLANCO: Okay. That doesn't answer my
2 question, sir. Do you have the machines that were
3 corrected, that had the errors corrected, out on the
4 field?

5 MR. MURRAY: The answer is not 18. The
6 answer is 16 of 3.8, because we do have those
7 validated.

8 DR. BLANCO: Okay.

9 MR. MURRAY: Those have been in the field,
10 are in the field, and no complaints. We do not have
11 systems that have the last two issues that are
12 currently undergoing validation in the field being
13 tested.

14 DR. BLANCO: How many patients do you have
15 that have been -- that have had the new machine
16 utilized without complaints?

17 MR. MURRAY: Approximately 400 procedures,
18 not machines.

19 DR. BLANCO: Four hundred procedures with
20 the new machine that you want to prove that no longer
21 are getting the -- no longer have the problems that --
22 the 16 of the 18 issues.

23 MR. MURRAY: Right.

24 DR. BLANCO: Okay?

25 MR. MURRAY: Yes.

1 DR. BLANCO: What were the two issues,
2 just for the Panel's --

3 MR. MURRAY: The two issues that remain
4 are this GMC or primary source plugging issue, which
5 Gene talked about quite a bit, Mr. Reu. And then the
6 second one was this issue of putting an appropriate
7 amount of thermally conductive medium in the tip of
8 the probe so that you can easily connect it; you don't
9 get a piston effect. And we're in the process --
10 we've developed procedures and processes to do those,
11 and we're in the process of validating them.

12 DR. BLANCO: Dr. Levy, does that answer
13 your question?

14 DR. LEVY: I think it does, yes.

15 DR. BLANCO: Okay.

16 DR. SHIRK: You're assuming that the 19
17 instances where the temperature probe didn't come up
18 to minus 80 -- go to the minus'80 degree sonograde was
19 totally due to the amount of gel that was around the
20 unit; is that correct?

21 MR. MURRAY: No, that's not correct.
22 There were a number of root causes for that. Some of
23 them involved physician not doing a pre-cool.

24 DR. SHIRK: Okay. What things have you
25 done -to solve that problem since 53 percent of those

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 200013701

(202) 234-4433

www.nealrgross.com

1 patients were failures in that 19-patient group?

2 DR. BLANCO: While you're getting Dave to
3 address that, I just want to remind the Panel members
4 that the FDA likes for us to discuss things among
5 ourselves and not have a dialogue back and forth with
6 a company, but really to kind of look at the issues,
7 and then they can go back and address those issues
8 with a company on how they can resolve them. But go
9 ahead, sir.

10 MR. REU: Gene Reu from CryoGen again. I
11 think your question was related to what issues were
12 presented that caused the systems issues that were
13 observed and what we've done to correct those; is that
14 correct?

15 DR. SHIRK: Correct.

16 MR. REU: Essentially, right now, as we
17 had described earlier, there were a few different root
18 causes that combined that could have produced
19 unsatisfactory temperatures during the procedure.
20 Those, again, as Dave Murray had alluded to, have been
21 resolved, the 16 issues, that is. The best example of
22 what we do to show that our system works effectively
23 and can allow the clinician to be assured that it will
24 work well during a procedure is that.

25 We have an automatic pre-cool cycle that

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHOOE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealgross.com

1 the system goes through. When you power up the
2 system, it goes through some self-tests, and then they
3 initiate this pre-cool procedure that essentially
4 verifies and validates that the system is working
5 effectively prior to the patient being treated. So if
6 there is any abnormality or lack of performance in any
7 of the subsystems of the device, then that would be
a brought on or it would be apparent as a result of this
9 pre-cool part of the procedure when they start up --
10 initially start up and use the machine.

11 So that would effectively -- if any
12 performance abnormality was observed, it would be
13 detected by the pre-cool part of the sequence, and
14 then the user would be effectively locked out of the
15 procedure. So they would not be able to do a
16 procedure if there was a performance abnormality
17 related to the system.

18 DR. BLANCO: Thank you. Let me try to
19 address the issue this way, and I'll throw up a trial
20 balloon and see whether the Panel members want to
21 agree with me or disagree with me. I think the point,
22 you know, which is brought up, and I think most of the
23 Panel members would agree, is that approving a device
24 that has a 26.5 percent malfunction rate is probably
25 not a very good idea.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234433

www.nealrgross.com

And I think that I would throw out that what I would like to see is some clinical data with a new machine that has resolved the issues that have been identified showing that out in the field with actual patients and actual physicians that utilize this, that this isn't -- YOU know, that the malfunction rate isn't this high, okay? Because I think that's kind of unacceptable. That's my bias. Now I'm going to leave it open. We're going to discuss it among ourselves. Thank you.

DR. LEVY: I absolutely concur with you, Jorge. I think that we just need to see how it works in clinical practice. On the bench, with the engineers working on it, I know it works. And I also know you can troubleshoot anything that starts to happen before it happens. But in the hands of clinicians, that does not occur. We've already got a patient sedated or anesthetized, and I think it's our responsibility to make absolutely sure that this marketable device, not the beta device, indeed works the vast majority of the time.

DR. O'SULLIVAN: Jorge, the issue should be able to tell us. If they have 400 of these commercially available and out of the field since they've made all these corrections, they should have

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, DC. 200053701

(202) 234-4433

www.nealrgross.com

1 this information easily available.

2 DR. LEVY: If it's part of a clinical
3 study. If it's just out there on the market and it's
4 not being scrutinized, then we may not have that data.

5 DR. BLANCO: Well, I think that the point
6 is not whether the data is there or not. I think the
7 point is -- and again, somebody speak up if they
8 disagree -- I think the point is the Panel, or at
9 least I and Dr. Levy, would like to have the sponsor
10 provide some hard clinical data of the machine that's
11 going to be marketed to the FDA demonstrating that the
12 current malfunction rate is at an acceptable level.
13 I don't know whether anybody wants to address what
14 that level is. I'd probably not want to put in a
15 number. I think the FDA may have more experience with
16 that than we do necessarily. But obviously 26 is too
17 high, It doesn't have to be necessarily zero maybe,
18 but 26 is too high.

19 Any comments? Dr. Shirk, I think you were
20 going to make some comments.

21 DR. SHIRK: Well, you said it. You're
22 using 26, but it's really higher than that, because if
23 you add up everything that I've got, there's 19 times
24 when it didn't go to the proper temperature. There
25 were six cases where there were total stoppage of the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 200053701

(202) 234-4433

www.nealrgross.com

1 procedure. One was a perforation, and that's a
2 physician error. But then there were like 56 out-of-
3 the-box failures out of the thing. That comes up to
4 a total of 81 problems with this thing. And I think
5 81 out of 189 procedures is higher than the 26. so I
6 really feel fairly strongly that we've got to have
7 some kind of a study ongoing after if we approve this
8 that all these problems have been corrected
9 satisfactorily for the Panel.

10 DR. BLANCO: Yes.. I just would like to
11 add, Gerry, though, that -- I mean I don't think that
12 the machine's responsible for physician error. So
13 what we need to -- and this, I think, will be
14 addressed in one of the other questions -- is the
15 issue of perforation and what do you need to have to
16 minimize that, rather than count that as a malfunction
17 rate of the machine.

18 Any other comments? Yes, sir.

19 DR. NEUMAN: Yes. I would like to just
20 address some of these things too. I think that many
21 of the errors are -- I shouldn't say errors -- but
22 problems are common problems in the manufacturing
23 process. And I think that there is a reasonable
24 approach to reliability analysis that could be used to
25 demonstrate without actually having to have these

1 devices in the field, that these problems have been
2 corrected. There are other problems, such as the
3 thermal coupling medium issue and the automated
4 approach to having that in the disposable unit, that
5 again with some good laboratory data this could go a
6 long way to convincing the FDA that in fact that issue
7 had been addressed.

8 Nevertheless, the second part of the
9 question is should there be any ongoing studies, and
10 I think even once those kinds of things have been
11 demonstrated that we ought to have some reliability
12 analysis. And in particular, I'm curious about the,
13 for want of a better term, the change the oil meter on
14 the device and how the firm determines what is the
15 time when that light comes on or whatever. I actually
16 wonder how it work in my car for that matter.

17 (Laughter.)

18 But I think that's a -- it's a crucial
19 factor. It's probably a moving target, and perhaps
20 part of what the Company should do is to have a
21 strategy to update that as the device is used in the
22 field. But that's an important aspect of the
23 reliability.

24 DR. SHARTS-HOPKO: My comment dovetails on
25 Michael's. I don't see in the user's manual how many

1 times it's recommended that you use the probe and
2 resterilize it. And I didn't know if the little
3 warning light is geared toward probe recycling.

4 DR. LEVY: It's my understanding that you
5 don't resterilize the probe. The only sterile piece
6 is the disposable piece which attaches to the probe,
7 as I understand it.

8 DR. BLANCO: Right.

9 DR. NEUMAN: And they have a feature, the
10 so-called Dallas chip, which I have no idea what that
11 means, but that in fact prevents you from doing that.

12 MS. YOUNG: Yes. I wanted clarification
13 about that too, because I have down that there are
1 4 four units, and one of the -- four pieces to this:
15 the console, the control unit, flexline, and the
16 cryoprobe. And only one of them is supposed to be
17 disposable, and I still don't understand, and forgive
18 me for not understanding this, it was explained by the
19 sponsor that the reasons were given why the control
20 unit needs to be disposable.

21 But what I don't quite understand, as you
22 know, there's a danger of that being contaminated.
23 The cryoprobe goes into the woman. I mean
24 theoretically let's say could be contaminated as well.
25 So I still don't understand what is disposable here

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 2344433

www.nealrgross.com

1 and what is not. And is that cryoprobe or parts of it
2 -- can it be taken apart? Can pieces of it be
3 sterilized and other pieces not be sterilized? I
4 still don't understand that.

5 DR. BLANCO: Okay. I think there are
6 three different issues. I think Dr. Neuman brings up
7 the issue for the sponsor that there needs to be some
8 sort of a system after the machine is used so many
9 times or whatever they come up with to realize whether
10 the gas is low or the compressor isn't doing well, as
11 you said, whether the oil needs to be changed. So
12 that's one issue in terms of performance of the
13 machine that you would recommend that it be looked at
14 in terms of long-term use out in the field.

15 I think, Nancy, you brought up the issue,
16 which I think was more of you use a reusable probe and
17 you're not supposed to reuse it, obviously. But when
18 do you not reuse it? I mean when you talk reusing,
19 are you saying reuse it on another patient after
20 sterilization or whether you put it back in after
21 you've taken it all out or do you pull it out a little
22 bit? That means you need a new probe. And I think,
23 actually, your question brings up a larger issue that
24 I don't know if we want to go off here or whether we
25 want to wait till seven on training, which is

1 physician labeling and physician direction, which I
2 think was somewhat limited in what is so far put
3 together. I'm trying to choose my words correctly
4 here. Because as we've heard this morning, there
5 seems to be a lot variability, I mean even to the
6 endpoint of what you need to use, but there are issues
7 about maybe you don't need two ultrasonography techs
8 or a tech and another person, but you do need two
9 people -- one to run the ultrasound and one to do the
10 procedure and one that knows what they're looking at.
11 so that's something that needs to be identified in the
12 physician labeling and education and training. The
13 whole endpoint, which endpoint, four to six minutes?
14 Four and six minutes? Ice ball? What do you use that
15 needs to be addressed? So there are a lot of issues
16 on that training.

17 And then, Diony, your point was slightly
18 different. You're still concerned why some of these
19 things are disposable and therefore more costly. I
20 don't know how much we want to get into that, and
21 maybe other Panel members can address it. I mean
22 that's just the way they designed it. We're not here
23 to look at cost. We may want to address that issue,
24 and we may want to suggest to the Company that maybe
25 they ought to try to make it so really what needs to

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 2344433

www.nealrgross.com

1 be disposable or not.

2 But go ahead.

3 MS. YOUNG: No. It's just that I'm still
4 not -- the cost issue is just one issue, but I'm still
5 absolutely not clear about if the control unit, which
6 doesn't go inside the woman's body, can be
7 contaminated by the woman's body or secretions or
8 whatever, and the cryoprobe, which does go into the
9 woman's body, is certainly exposed to the woman's
10 secretions or whatever, could be contaminated, one of
11 them is disposable. But the one that is disposable is
12 the one that I think maybe less contaminated than the .
13 one that apparently is not disposable. And if the
14 cryoprobe is -- is that used many times and sterilized
15 in between each usage?

16 DR. SCHULTZ: Could I just make one
17 recommendation?

18 DR. BLANCO: Go ahead, Doctor, please.

19 DR. SCHULTZ: I think that there -- it
20 sounds to me like there's still some confusion as to
21 which parts fit in which parts and where they go. So
22 I would like to recommend that perhaps someone from
23 the Company could spend one more minute sort of going
24 through all the individual parts, what constitutes the
25 console, the tubing -- I think the console and the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, O.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 tubing are pretty clear. But I think the probe and
2 the control unit and how those fit together and what
3 touches the body and what doesn't touch the body, I
4 think two minutes on that might save us a lot of
5 discussion.

6 DR. BLANCO: I think that would be
7 excellent, and if you've got pictures, a picture's
8 worth 1,000 words.

9 MR. MURRAY: We have pictures. I guess
10 the first thing I'll ask you to do, we want -- is our
11 computer still up here? Could we plug it into the
12 projector? I might ask you to turn --

13 DR. BLANCO: Either that or where are they
14 on here?

15 MR. MURRAY : Tab F in your Panel pack,
16 page 149. And then we'll try to get this up on a
17 slide here quickly too. Everybody with me?

18 Okay. At the very top two diagrams,
19 there's an illustration of a box sitting on the
20 ground, and the right hand of the assistant there on
21 the top photo is touching a box. That box is the
22 console. The **flexline** is just to the right of that
23 person's arm, and it's **that black**, flexible line going
24 up. And then if you'll look down at the third diagram
25 down, the part that is in that person's right hand,

1 the gloved hand, is the disposable control unit. It
2 has the drape backed up over it, and it is white
3 plastic. The part that's in the other person's hand
4 is the cryoprobe. The cryoprobe is permanently
5 attached the device. It rests in an enclosure on the
6 side of the device when it's not in use. But before
7 the system can be operated, a sterile, disposable
8 control unit needs to be put in place, and you can
9 think of it as a sheath so that it creates a sterile
10 barrier. That's the part that's disposable.

11 Here we go. If you'll look at this right
12 here. This is the disposable control unit. We
13 photographed it without -- there's actually a drape
14 that goes on the back here. It doesn't photograph
15 very well. That's the disposable control unit.

16 MS. YOUNG: Finally. Thank you.

17 DR. BLANCO: All right. I think we
18 understand now, so I think we can move on.

19 MR. MURRAY: Okay.

20 DR. BLANCO: Okay. Thank you. All right.

21 Now --

22 MR. MURRAY: May I -- do you want us to go
23 into the other two questions you were raising?

24 DR. BLANCO: No. Let's move on. We're
25 going to move on. Okay. So are we happy with that

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, DC. 20005-3701

(202) 234-4433

www.nealrgross.com

1 now? Okay.

2 Any other comments on question one and any
3 comments about labeling? Okay.

4 I guess in summary, and make sure I keep
5 it correctly, my issue would be -- we shouldn't
6 require labeling. We should make sure the machine
7 works. So it shouldn't be a labeling issue. And I
8 think in some way or form whether it's through
9 validation, as Dr. Neuman mentioned or whatever, we
10 need some actual data being presented to the FDA that
11 says, hey, we fixed these problems. It's not
12 happening out there when docs are using the machine.
13 Fair enough? Cindy?

14 MS. DOMECUS: I just wanted to 'add that
15 the Company, I think, said that they've got data on
16 400 patients, which I assume have been done under the
17 510(k) approval and not under an IDE. But if there is
18 a way for the Company to go back and uniformly gather
19 that data and objectify it and make it look close to
20 a clinical trial, that those 400 patients should be
21 looked at as a possible avenue for providing clinical
22 data to address this, if it's possible. I don't know
23 really what was done and how many sites are involved,
24 but I think that should be an option.

25 DR. BLANCO: All right. That would be a

1 recommendation, and that would be fine. I think it's
2 just a matter **of** some demonstration that the rate of
3 failure is lower than what's been reported.

4 All right. Anything else on question one?

5 All right. Let's move on to question two
6 'then. In the clinical protocol, the procedure was to
7 involve one four-minute freeze and one six-minute
8 freeze in opposite cornua of the uterus. In the
9 clinical trial, there were several instances of
10 additional or longer freezes being performed, mostly
11 secondary due to device malfunction. Is the
12 standardization of the procedure, i.e. number and
13 duration of freezes, critical to device safety and
14 treatment success should the device be designed to
15 assist the investigator in performing only the number
16 and duration of freezes specified in the clinical
17 protocol?

18 Any comments to start us off? Yes, ma'am.

19 DR. SHARTS-HOPKO: Okay. I'm referring to
20 page 23 of the user's manual in section F. And it's
21 been alluded to before that clinicians using the
22 product will exercise clinical judgment, but this
23 talks about -- well, before this page in the user's
24 manual there's some variability in how long you're
25 going to leave the freezer on. But on page 23,

1 specifically, it gives you the option of -- end
2 procedure? Choose no if additional freezes are
3 required. And we don't have any information on how a
4 clinician would determine whether or not you need to
5 stay in longer or do a third freeze or any of those
6 issues. And I'm concerned about that..

7 DR. BLANCO: All right. Any other
8 comments? Yes, I really would like to even broaden
9 this subject up a little bit. And this is the issue
10 that I brought up when we were talking about what's
11 the endpoint? I mean the endpoint that we mentioned
12 is four to six -- a four freeze and then a six-minute
13 freeze, but I mean we've also heard about freeze ball
14 size and freeze ball getting to the serosa,
15 temperature of the tip as being an issue. I think
16 that all of the -- I mean there's going to be enough
17 variability once you put it out in the field with
18 clinicians using it, being a clinician myself, that I
19 mean we don't need to go into it with a heck of a lot
20 of variability into what the recommended procedure is
21 to do this thing right.

22 so I think there needs to be some thought
23 given, it doesn't need to be today, doesn't need to be
24 today, but I think that there needs to be some thought
25 given as to what is going to be the endpoint, clearly

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 documented, okay, and then dealt with FDA as to what
2 that endpoint is and agreed to. And I think you might
3 treat other -- if the study used a four and six, that
4 may be what you want to do, and you may want to use
5 the freeze ball as a safety issue of saying you don't
6 want to have it more -- get closer to the serosa than
7 one or two millimeters. And if you do then you need
8 to stop the procedure. But I don't think you can --
9 you know, you can't say -- you can't change the target
10 of what the endpoint is depending on what you're
11 dealing with. Is that fair? All right. Gerry?

12 DR. SHIRK: Well, you know, I guess it .
13 comes down to one of the initial questions I asked
14 when we were talking about the freeze ball thing as
15 they chose the freezing pattern that they did. And
16 that the logic of using a longer freeze for the second
17 area and so I would assume that when people start
18 using it they'll probably do a four-minute freeze, one
19 cornua, and a four-minute freeze the other cornua, and
20 four-minute freeze down the center, which is probably
21 going to get you the best results, because the
22 clinicians going to want to try and get the best
23 results. And the question is, basically, should we
24 force the issue into staying with the protocol and not
25 allowing the machine any latitude to do things or is

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 it just sort of dealer's choice when it comes to using
2 a machine as a clinician.

3 DR. BLANCO: Well, I don't think the issue
4 is how to use the machine as a clinician, because no
5 matter what you put down there are going to be
6 clinicians that are going to vary. And any clinician
7 in the audience will nod their head, I think, in
8 agreement will vary what you do. That seems to be the
9 nature of the beast in the country.

10 I think the issue is what is going to be
11 the recommended surgery needs to be detailed and
12 specific. And if the study used a four and six, I
13 mean I don't see how we can all of a sudden change it.
14 And you can talk about all the other things, but
15 you've got to be careful about how you talk about
16 them, either as safety issues or another way or
17 something else, but that you still have to stick to
18 whatever the study set up was, right? Barbara?

19 DR. LEVY: Jorge, I'm still very concerned
20 about those two sites with very low success rates.
21 And I think an analysis of the technique that those
22 surgeons were using is really critical to the labeling
23 here. Clearly, something was different in those two
24 sites. Maybe it was the tenaculum thing. Those kinds
25 of things have to be analyzed and then put in the

1 labeling. I think -- you know, I'm relatively
2 satisfied that the success rates weren't particularly
3 different in the protocol violations versus the four
4 to six. Nevertheless, we have to decide that four and
5 six, because that was the way the study was designed,
6 that's going to be the labeling. I mean that's pretty
7 clear.

8 And then if the Company chooses to allow
9 some leeway in there, for whatever reason, you've got
10 to tell us what the reason is and what the clinical
11 parameters are that might cause you to do that. In
12 other words, in advising neophytes and using
13 cryosurgery as endometrial ablation device, you can't
14 leave that much fudge in there. Docs think they know
15 what works and what doesn't work. Freezing the cervix
16 is not the same as freezing the endometrium.

17 So I think the fudge factor's got to come
18 out. We need to understand why those two sites had
19 low success rates, what it was about the technique
20 that was different in those two sites. That has to be
21 analyzed. And then from there we can tighten up the
22 labeling, but the labeling clearly has to be tightened
23 up.

24 DR. SHIRK: But I think there's more than
25 just the two sites that are low, Barb, if you really

1 look at it. I mean if you looked at five of their
2 sites -- Yale, Denver, Los Gatos, Alabama, Boston,
3 Mass -- and you took those all -- those were the only
4 sites that we're using, you wouldn't meet criteria on
5 this. I mean they're all at 70 percent or below, and
6 if you look at their six-month data, it was even a lot
7 worse so that from a statistical standpoint this thing
8 seems to be very operator dependent as to what the
9 success of the procedure's going to be.

10 DR. LEVY: And that's what I really think
11 needs to be analyzed. I think it's incumbent upon us,
12 as representatives of the FDA, to try to sort that out
13 and figure out what it is. But I'm very concerned
14 that with current labeling, under current conditions,
15 in broad usage, the success rates with this thing
16 might be ten or 15 or 20 percent. They may not be
17 very good at all.

18 DR. BLANCO: Well, and that brings up the
19 other issue, I think. Both you and Dr. Shirk made
20 good points. I mean it brings up the other issue that
21 there may be a training problem, that there may be
22 something that certain sites did to have the higher
23 success rate because they're more familiar with the
24 machine or just serendipitous or whatever.

25 And one of the things -- so I guess we

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, O.C. 200053701

(202) 234-4433

www.nealrgross.com

1 might as well talk a little bit about that now since
2 everything seems to be going back to doing on that.
3 I think the physician labeling, the physician
4 direction needs to be significantly expanded to
5 include some of these issues -- the ultrasound issue,
6 the training issue -- and some analysis needs to be
7 made whether the technique and training issues -- you
8 mentioned in the proposal ten -- that there was a
9 learning curve of ten. Well, even that needs to be
10 addressed. How many does it take to get the procedure
11 right before you know that you're going to get higher
12 success rates? And there may be other issues, but I
13 think there's a lot of information for a physician
14 training that isn't in --

15 DR. LEVY: Yes. And what are you going to
16 tell those first ten patients?

17 DR. BLANCO: Well, maybe they have to be
18 done in conjunction with someone else. I don't want
19 to put that into the requirement at this point just
20 yet, but I think that those are all issues that the
21 Company needs to address in terms of its labeling for
22 the physicians and in terms of training.

23 All right. Over here.

24 DR. D'AGOSTINO: Did the data actually
2 5 show that after the first ten the success rates

1 improved drastically?

2 DR. BLANCO: They say that, but I don't
3 know that they showed that.

4 DR. O'SULLIVAN: But there's certainly no
5 question when you look at the data and did the highest
6 numbers, that they did have the highest successes.

7 DR. D'AGOSTINO: Well, they could have
8 started right off with the highest successes.

9 DR. O'SULLIVAN: This is true.

10 DR. D'AGOSTINO: You know, in the sort of
11 drug arena where you require two studies, you
12 oftentimes see the first study is a smashing success
13 and the second study is a smashing failure. And it's
14 because of the broader range of investigators. And it
15 isn't necessarily the case that you can handle that by
16 telling how to -- improving the label and so forth.
17 So I think they do have some demonstration along the
18 way that's necessary.

19 DR. O'SULLIVAN: What may be useful,
20 though, is -- and I think if you take this information
21 and look at what I said about the institutions with
22 the four -- especially the four and perhaps the five
23 highest number, that it probably does point out that
24 there needs to be some kind of education and
25 proctorship of some sort, perhaps, before going right

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHOOE ISLAND AVE., N.W.
WASHINGTON. O.C. 20005-3701

(202) 2344433

www.nealrgross.com

1 into this instead of just doing it.

2 DR. DIAMOND: Jorge, perhaps Dr. Kotz
3 could make a comment about whether they got better
4 with experience, because one of the things that we
5 were given to read, which didn't mention that if you
6 excluded those sites that had very few cases -- I'm
7 assuming you wrote this -- that if you only look at
8 those sites that had lots of cases, there was no
9 learner's curve. It's only if you include the sites
10 that had very few cases that a learner curve was
11 evident.

12 MR. KOTZ: Yes, I can address that, yes.
13 I'm Richard Kotz, statistician for the FDA. I
14 analyzed that issue, and I did find -- I believe that
15 the model that they used --

16 DR. BLANCO: I'm sorry. Let's stay
17 together, guys. Okay, go ahead.

18 MR. KOTZ: I believe that the model the
19 sponsor used to look at that issue included all sites.
20 So you're including several sites with a few number of
21 patients, approximately ten, who had poor results.
22 You're including that to analyze this whole issue. So
23 that brings down the **rate** of the first ten overall.
24 So if you look at just the sites with a sufficient
25 number of patients, you don't get a statistically

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, O.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 significant improvement after the first ten.
2 look a little bit better but nothing that can be
3 statistically supported.

4 DR. BLANCO: So what you're saying is that
5 the two sites that had the very low success rates had,
6 I think, very low patients.

7 MR. KOTZ: Yes.

8 DR. BLANCO: And that those are what's
9 bringing down those early first ten.

10 MR. KOTZ: Right. There are actually
11 three or four sites like that with very few patients,
12 yes.

13 DR. BLANCO: Okay.

14 DR. D'AGOSTINO: Again, if you do sort out
15 the sites that had more than ten, from what I just
16 heard, that you don't really have a smashing
17 statistical proof that there's a learning --

18 MR. KOTZ: Correct.

19 DR. D'AGOSTINO: -- that's going on.

20 DR. BLANCO: But then in fairness to the
21 Company, what that says, basically, is that maybe you
22 don't need to have all this training, but you still
23 need to analyze why these sites -- I mean the numbers
24 are so different.

25 DR. D'AGOSTINO: That's what I was trying

1 to say. I think there may be something else.
2 Training is obviously useful, but there may be other
3 things.

4 DR. BLANCO: Okay. I think Diony was
5 first here.

6 MS. YOUNG: Yes. Relative to the success
7 rates of the sites and what might be the factors
8 involved, one of the issues that is -- one of the
9 factors that appears to be different in the pre-
10 treatment protocol is the option of thinning the
11 uterus -- thinning the endometrium or not. And I was
12 unable to sort of gather in places -- it's optional in
13 the informed consent, which we just got today,
14 protocol. It was a recommendation that physicians do
15 it. In the patient brochure, it is optional, and
16 patients are told that your physician may use this
17 thinning agent for the endometrium.

18 And I suppose that in the studies, in the
19 different sites, maybe in some of the sites the
20 endometrium had the thinning agent and maybe in other
21 sites they didn't have the thinning agent. And I
22 would like to ask if thinning the endometrium could be
23 a factor in the success of the procedure?

24 DR. BLANCO: I think, if I could make it
2s broader, I think everybody's in agreement on the Panel

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 2344433

www.nealrgross.com

1 that the data needs to be analyzed to try to find out
2 why these sites have such a markedly different success
3 rate and try to address the issues of what went on at
4 those sites that resulted in that as opposed to the
5 other sites to be able to identify if there is a
6 problem that needs to be addressed through labeling or
7 changing the device or whatever. Is that fair enough?
8 I mean I'm making it broader, not just the use of the
9 Lupron, but I think that the other things that may
10 need to be looked at, whatever data they have, to see
11 why they were different.

12 DR. JANIK: I think they were all Lupron
13 pre-treated in the protocol. So that's not it.

14 DR. BLANCO: Yes. So that isn't it.

15 DR. JANIK: The only thing that -- well,
16 maybe there's others, but the ultrasound question to
17 me still isn't very clear. Are all these sites all
18 ultrasound trained? Is the ability the same in all?
19 is the placement the same? It seems just from
20 clinical experience to be a wide variation in GYN is
21 their scanning ability.

22 DR. LEVY: And I was going to comment.
23 The other issue is the skill and level of endometrial
24 ablation experience in general. Just from my own
25 personal knowledge, I know some of these sites have a

1 vast experience of endometrial ablation; others, less
2 so. Even though this is a non-hysteroscopic
3 technique, it may be that the training and experience
4 level of the operator in terms of endometrial ablation
5 overall made a big difference.

6 DR. BLANCO: All right. Any other
7 comments? Yes, we kind of moved on into number three.
8 So let's go back to number two. Any other issues that
9 the Panel would like to address on number two?

10 DR. LEVY: Jorge, I'd just like to say the
11 second part of that question, should the device be
12 designed to assist the investigator in performing the
13 number and duration, I would say that stuff needs to
14 get cleaned up. Why it should be allowed to be on for
15 ten minutes if we're only recommending six minutes,
16 that doesn't make good sense. And I think between the
17 sponsor and FDA that piece of it needs to be cleaned
18 up. If there are going to be clinical circumstances
19 in which ten minutes is required for some reason, then
20 it may make sense to have it the way it is.

21 Secondly, if you've determined that
22 tenaculum pressure is necessary for appropriate
23 placement of this device, then perhaps having-a hook
24 or something else on there to provide that tenaculum
25 pressure may be something that would aid the clinician

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, DC. 20005-3701

(202) 234-4433

www.nealrgross.com

1 in doing this properly to get the kind of outcomes
2 that you want to get. But I think that clearly the
3 second part of this question needs to be addressed,
4 and I don't think we can addre'ss it until we've
5 cleaned up the fuzzy part of operator decisionmaking.

6 DR. BLANCO: Dr. Diamond?

7 DR. DIAMOND: I want to start off by
8 saying that I think in the long run there needs to be
9 a definitive protocol by which a success is going to
10 be defined, whether that's amount of time or an ice
11 ball or whatever. Having said that, though, uterus
12 vary in size and shape and thicknesses, cornua
13 uterus, which physicians may not necessarily
14 recognize ahead of time unless they've had a reason to
15 evaluate the uterine cavity or other abnormalities
16 that may be present. And so I think there is a value
17 in physicians being able to modify how they are
18 applying treatments.

19 And I would not like to see it where the
20 device can only be used in one way for once at a time.
21 I think that having that variation I think is
22 valuable, just like we have certain ways we use our
23 lasers, our electrosurgical generators, but yet we
24 have a range of ways in which we can use them.

25 Furthermore, it would be my hope that

1 perhaps this device might be able to be used in other
2 locations throughout the body at some point in time.
3 And rather than having to have an OR which is
4 cluttered with one instrument which can only be used
5 for this purpose and one for the cervix and one for
6 each other site, I'd rather be able to see them be
7 used different ways, although setting them at for what
8 is supposed to be the endpoint that is desired, as
9 identified by the Company.

10 DR. BLANCO: Okay. Any comments on that?
11 I have a comment. How about some sort of a
12 compromise? I agree with you that there needs to be
13 some variability, but I think also what some of the
1 4 Panel members are bringing up is -- you know, we don't
15 have a lot of evidence from the thermal study looking
16 at the temperature variations in the uterus. I mean
17 there were a few number of patients in very specific
18 settings there and again without the thinning of the
19 endometrium.

20 Would you like to see a small number of
21 patients where that kind of data is reproduced, maybe
22 letting the freeze go more to the ten minute maximum
23 that they currently have to at least address the issue
24 of safety or if somebody doesn't realize or doesn't
25 see the ice ball and just keeps freezing until the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 2344433

www.nealrgross.com

1 machines shuts itself off?

2 DR. DIAMOND: Yes. I would absolutely
3 like to see that. I also would like to see the effect
4 of, I call it, the Heppard modification, which it
5 points to the cornua and then pulls it back, because
6 I don't see that described any-place in the protocols.
7 It makes a lot of sense, but yet that's not what has
8 been described as being done. So what is the effect
9 of that modification on being able to treat those
10 areas around the temperatures that you've achieved in
11 the cornua?

12 DR. BLANCO: And I think that addresses
13 the issue that keeps recurring, which seems to be a
14 big issue, which is that even in the study and in the
15 suggestions there seems to be a lot of variability.
16 And at least we know there's going to variability
17 introduced by the physicians. At least when the
18 machine goes -- the device goes out and it has a way
19 of doing things, it ought to have a clear, one way,
20 this is how we recommend you do it. Fair?

21 Okay. Any other questions? Comments?
22 Mike?

23 DR. NEUMAN: Now this is just a very
24 simple question. I'm approaching the time in life
25 when it's hard to keep something in mind for two

1 minutes.

2 (Laughter.)

3 I'm wondering if having the machine
4 instead of beep every two minutes give some other
5 indication so you know actually how far along into the
6 procedure you've gone?

7 DR. BLANCO: So you're suggesting like,
8 what, that it -- some sort of a number, you know, two
9 minutes, four minutes, six minutes, something like
10 that?

11 DR. NEUMAN: Whatever. I mean I just
12 think it's difficult if you haven't been paying
13 attention and the thing beeps. I mean really what you
14 should do when it beeps is look at the little blue
15 screen, but if the beep could be a little more
16 informative, it might be more valuable.

17 DR. BLANCO: Okay. All right. Anybody
18 else, any comments? All right. Anything else? Okay.
19 I think we probably addressed some of the issues in
20 number two.

21 Now, number three, we've kind of talked a
22 little bit about, but let's go over it again. There's
23 a wide range of success rates among the clinical
24 sites. Randomization also varied among the sites. Do
25 you have any recommendations for training or labeling

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 to achieve more uniform success rates?

2 Well, on the issue of randomization, we've
3 been told that that's just the way the computer put it
4 out, so I guess the only issue would be that the FDA
5 -- they need to provide the data to the FDA to show
6 that, and that would be fine.

7 As to recommendations for training or
8 labeling to achieve more uniform success rates?

9 DR. LEVY: I think that the sponsor and
10 the FDA have to get together and figure out what those
11 issues are. Certainly, pulling back from the cornua,
12 putting traction on the tenaculum, I mean you've
13 identified a couple of them, and those things need to
14 be incorporated into the training in some uniform and
15 reliable way. Granted that clinicians are uniform and
16 reliable, but the whole concept of globalization
17 devices is that they're supposed to be easier to use
18 than hysteroscopic devices. And I think in order for
19 us to do that, it's going to have to be very, very
20 clearly spelled out exactly what the technique is.
21 And that has to be the labeling as well.

22 DR. BLANCO: Go ahead.

23 DR. SHIRK: I think one of the big issues,
24 and I still sort of disagree with the Company as far
25 as a learning curve, because if you go back to the

1 six-month data, it really doesn't -- and look at those
2 sites that were -- all the sites that -- the two that
3 had -- you know, only ten sites were -- one was at 80
4 percent; the other one was at 50 percent. The other
5 two had 15 patients, and they were still low, and they
6 were the two low sites. So I mean they were -- they
7 hadn't improved over the last five patients, so they
a were still pretty much the low sites.

9 so something's going on other than
10 learning curve as far as technique. And I think those
11 things need to be identified before you can identify
12 it with labeling. I think it's certainly something in
13 the technique that's important that needs to be
14 identified and the labeling needs to go back and
15 identify this, or the training needs to, but I think
16 it's beyond learning curve.

17 DR. BLANCO: Well, I think the data on the
18 idea of the learning curve probably has been put to
19 rest also with the statistical issue of the smaller
20 sites were the ones that had worse successes. So
21 that's probably what we're seeing more than anything
22 else.

23 I think the issue you bring up more
24 generally is that it's very difficult to be able to
25 make suggestions on recommendations on what needs to

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 happen without an analysis of what that variability
2 was and what they were doing at different sites. I
3 mean I don't know what they were doing at some of
4 these sites, but to go from a very high -- I'm trying
5 to look and see the two highest numbers of success
6 rates -- from 25 to 90 in two different hands,
7 somebody was doing something different. And I don't
8 know what it is, and I don't know if we're going to
9 find out here at the Panel meeting, but that needs to
10 be looked at, and some attempt needs to be made to see
11 what was the difference in the procedure or the
12 technique or whatever to try to standardize it a
13 little bit more and avoid the lower rates.

14 Diony?

15 MR. YOUNG : Yes. I want to raise the
16 thinning of the endometrium again. If this was used
17 in the study in all of the sites, then why is it
18 considered to be sort of optional in some of the other
19 material that we have read? I think that it should be
20 very clear in the labeling. I mean if it's considered
21 to be beneficial in fact to use the thinning agent for
22 all patients to thin the endometrium, then it should
23 be clearly stated in the labeling and not indicated
24 that this is a sort of optional thing for physicians
25 to use. And women in the patient brochure shouldn't

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 200053701

(202) 234-4433

www.nealrgross.com

1 be told, you know, your doctor may do this or he may
2 not. Then the woman is going to wonder, well, why is
3 my doctor not doing this thing which may benefit me.

4 DR. BLANCO: So since the data was with
5 the thinned out endometrium, that should be the
6 procedure on the labeling, both for patient manual and
7 physician recommendation.

a DR. LEVY: There is no way that we can
9 talk about success rates in any other environment. So
10 we just can't publish anything. We have no data on
11 anything other than pre-treated uteri.

12 DR. BLANCO: Okay. Dr. Diamond?

13 DR. DIAMOND: Jorge, I want to make one
14 point. First of all, several times now people have
15 made the comments that what was different in the
16 surgeries at one site versus another. Maybe it's the
17 patients.

18 DR. LEVY: The patients.

19 DR. DIAMOND: For example, as I understand
20 the protocol with all the amendments, fibroids ended
21 up being not an exclusion criteria -- polyps, that
22 apparently it varied during the protocol. So that's
23 one thing.

24 The weight of individual patients. While
25 it may not have varied between the two study arms, it

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 200053701

(202) 234-4433

www.nealrgross.com

1 may have varied as far as success and the amount of
2 endogenous estrogens that are being produced and the
3 effects on the endometrium. So there could be
4 endogenous patient characteristics which could also be
5 affecting those success rates of the different centers
6 based on the referral practice of whatever they happen
7 to have.

8 DR. BLANCO: Right. And they should be
9 able to gather that data. Because, actually, when
10 you're talking about no difference, you're really
11 talking about the ones that were in the cryo versus
12 the ones that were in the rollerball. And what we
13 really are looking is the difference --

14 DR. DIAMOND: Within the cryo.

15 DR. BLANCO: Right.

16 DR. DIAMOND: The point I want to make,
17 and I'm not sure if it falls here, but I'm not really
18 sure where it does fall --

19 DR. BLANCO: Well, we're going everywhere,
20 so you might as well.

21 (Laughter.)

22 DR. DIAMOND: Thank you. When we put
23 together the guidance doctrine -- I know Barbara and
2 4 yourself were on the Panel at that point; I don't know
25 if anyone else was -- the PBAC scoring system, which

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N. W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 no one has really described here today, actually is a
2 very interesting system in that it's not linear. The
3 more you have it exponentially almost increases the
4 amount of scoring. We had actually come up with other
5 ways of assessing outcomes as potential endpoints,
6 which included amenorrhea or other endpoints. And the
7 Company very rightfully chose the one they wanted to
8 use and would agree with the FDA, so I'm not finding
9 fault with that at all. We gave lots of options at
10 that point.

11 But if you look at the data, page 54 of
12 our books, and if I look at the six-month data for
13 cryosurgery versus rollerball, which is the last time
14 for which we have the complete data, as I understand
15 it -- because the 12 months, as I understand it are
16 like 21 pages that are still outstanding -- total
17 amenorrhea, cryosurgery was 22 percent; rollerball was
18 51 percent. And menorrhagic scores above 100, the
19 opposite side are 21 percent with cryosurgery; ten
20 percent of rollerball.

21 So while a PBAC score of less than 75
22 we're not seeing differences, if you break it out on
23 more than a two-point scale -- what they've got here
24 is a five-point scale -- it does look like there are
25 differences, particularly at the extremes. And so I

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 just wanted to point that out to everybody and make
2 sure people were aware of it as we talk about success
3 at difference places, because depending on how we
4 define it, you may come up with different
5 observations.

6 DR. BLANCO: Well, Michael, continue with
7 your thought. I mean do you think that that kind of
8 difference is sufficient to give you concern as to
9 whether the device is equivalent to rollerball or not?

10 DR. DIAMOND: I mean to go from six months
11 to 12 months, some of those extreme differences
12 decrease in magnitude. The ones with total .
13 menorrhagia still has a score of 100. It's now down
14 to 12 percent versus seven percent. So it's still
15 almost double, but my bet if you give statistics that
16 wouldn't be significant. But the amenorrhea is 30
17 percent versus 54 percent. And so depending on what
18 a woman is desiring, total absence of. menses or
19 reduction of amount of bleeding, she may find
20 differences in success with these different forms of
21 therapy.

22 DR. BLANCO: Dr. Schultz?

23 DR. SCHULTZ: If I could just make one
24 quick comment, just on the comment that you made, Dr.
25 Blanco. Let me just make sure we understand the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, O.C. 200053701

(202) 2344433

www.nealrgross.com

1 device does not have to be equivalent to rollerball.
2 The question is, I think, based on what Dr. Diamond
3 was saying, is in writing the label and in writing the
4 summary of safety and effectiveness, are there
5 additional ways of presenting the data which should be
6 included in addition to simply stating the PBAC scores
7 at one year? So that's -- I just want to clarify that
8 that's really the question that should be addressed as
9 opposed to the issue of equivalence. Thank you.

10 DR. BLANCO: Thank you.

11 DR. LEVY: And I think, to just follow
12 along that, I have no issue with looking at amenorrhea
13 rates. I don't think we need to do that. The
14 labeling for this device should clearly be its purpose
15 is to reduce menstrual flow, just to make it simple
16 and make it easy. And then when we look at
17 effectiveness, the effectiveness of this device was to
18 reduce menstrual flow below a level that's considered
19 acceptable. That 75 score we know is an acceptable
20 level for women. It won't reduce their blood count
21 and those kinds of things. So the labeling should
22 just be in very clear language that the purpose of the
23 device is to reduce menstrual flow, not to eliminate
24 it, not to ablate it, to reduce it.

25 DR. SHIRK: The question is are we

1 launching into number four or are we going to close on
2 number three here?

3 DR. BLANCO: All right. Well, anything
4 else that we want to add to number three? Then I'll
5 take that opportunity to say it. You want to add
6 something to number three?

7 DR. SHIRK: But my recommendations would
8 be that I think there has to be some labeling
9 regarding that, but I think it's got to be -- I don't
10 think the definitions or what's causing it are
11 immediately apparent to the Panel, and I think that
12 that needs to be addressed by the Company and the FDA .
13 and those labelings undertaken between the two of
14 them. I don't think the Panel has enough information
15 at this point to make a recommendation.

16 DR. BLANCO: And on that, we'll move on to
17 number four.

18 DR. SHIRK: Okay.

19 DR. BLANCO: Unless anybody else has a
20 comment on three, but I think that closed it out
21 pretty well. All right.

22 Well, let's move on to four. So four:
23 The 12-month success rates satisfy the sponsor's
24 statistical analysis. Do these results show that the
25 device provides clinically significant results? Dr.

1 Shirk?

2 DR. SHIRK: Well, I think I guess I've got
3 several questions about the data. And I guess one of
4 the biggest questions I've got about the data is
5 what's unique about this procedure? If you look at
6 the six-month data on the rollerballs, it's
7 consistent. Generally, six months on any endometrial
8 ablation procedure is the best you're going to do. If
9 you look at the statistics, there's a five percent
10 jump in statistical significance in the cryo unit
11 thing. Some of the investigators had even higher
12 jumps than that, as far as their statistical endpoint,
13 over from six months to 12 months. And I guess, I
14 don't know what the Panel feels, but maybe you guys
15 feel comfortable with this, but I really have a
16 question as to what's unique about this procedure that
17 we don't know that makes the statistics on this thing
18 keep getting better rather than worse after six
19 months? Six months is 69.1 percent; at 12 months,
20 it's 74 percent.

21 DR. KATZ: Doing the paired comparisons,
22 I'm just looking at them, I'm seeing some going up and
23 some going down. So before we jump to conclusions,
24 79, 82, 84, 82, 72, 88.

25 DR. SHIRK: Okay. But look at all the

1 rollerballs. They all stay fairly consistent, okay?
2 I mean, basically, you're looking at basically 72, 87
3 on Columbia Rose; you're looking on Swedish, 79, 92.5;
4 on Denver, you're going from 58.3 to 72.6; on Los
5 Gatos, from 50 percent to 71.4. I mean those are --

6 DR. KATZ: There's loss to follow up there
7 too. Yes, there's a loss to follow up there. There's
8 a drop there too.

9 MS. DOMECUS: Dr. Shirk, I think what
10 happened -- maybe the Company correct me if I'm wrong
11 -- I think that some patients that missed their ~~six~~-
12 month follow up were then included in the 1a-month .
13 follow up. Because I noted the same thing when I was
14 reviewing that looked like the scores got better
15 between six and 12 months, and that seemed peculiar,
16 as you were pointing out. But I think that was the
17 explanation, but I'm not sure.

18 DR. BLANCO: Well, I would bring up it's
19 a five percent difference, which is small. I don't
20 know if that's a really a statistically significant
21 difference, number one. Number two, if you do look at
22 the bigger sites, they pretty much stay the same. And
23 there are differences in the numbers that will change
24 the percentage that may be due to follow up. so I
25 don't know -- plus there may be some reason why the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE.. N.W.
WASHINGTON. D.C. 200053701

(202) 234-4433

www.nealrgross.com

1 machine does better. I don't know whether maybe the
2 women are having extra secretions because of some
3 particular effects of the cryo. So I don't know that
4 I'm that worried.

5 DR. D'AGOSTINO: Some of the failures are
6 probably dropping out also from the six months to the
7 12 months. The numbers go down from the 12 months.
8 So it isn't that the procedure's improving. Those who
9 didn't get success have dropped the study.

10 DR. LEVY: But to answer the question that
11 were asked, if the PBAC drops from over 150 to less
12 than 75, yes, that's clinically significant. I mean
13 that's the question we're being asked right now. And,
14 yes, that's a clinically significant difference. No,
15 it's not amenorrhea, but, yes, that's a clinically
16 significant outcome.

17 DR. BLANCO: Either one of you go.

18 DR. KATZ: It may be the same question.
19 Something that was brought up by Richard Kotz, the way
20 we're interpreting the data is we're just pooling all
21 the results to calculate these percentages. And I
22 think that you raised the question, which came to my
23 mind as well, and that is, is there any way to look at
24 the success rate and sort of normalize by site rather
25 than just pooling everything together, whether this is

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 200053701

1 smoothing over something and so we're kind of missing
2 the true success rate. Because we did see a range of
3 values to the rollerball, not just for the cryoprobe.
4 I mean this will tend to smooth things out, and are we
5 losing -- and you raised this question in some
6 comments that you gave us, right?

7 MR. KOTZ: Maybe indirectly. There are
8 ways of --

9 DR. BLANCO: Identify yourself again.

10 MR. KOTZ: Richard Kotz, statistician for
11 the FDA. There are statistical methods for weighting
12 sites according to the number of patients. That would
13 possibly adjust for these rates. But, generally, and
14 the labeling is probably the most important issue in
15 this case, we do pool all patients together, giving
16 each patient equal weight in the labeling. And we
17 based our labeling on observed rates. So that's, I
18 guess, a simple answer to your question.

19 And as far as the other question goes, the
20 difference between success rates, six months and 12
21 months, I looked at that pretty carefully. There are
22 a few instances where failures did become successes.
23 There are several instances, maybe four of them, where
24 you have noticeably very high scores becoming
25 successes -- One rollerball and I believe three or

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 four cryopatients. And when I talk about noticeable,
2 I'm talking about 250 or 500, in one case 1,000 at six
3 months that does become a success at 12 months. I
4 have no answers for that.

5 DR. BLANCO: Let me -- in the interest of
6 time, let me cut you short, because I'm going to --
7 you know, I've been coming to these since 1994, I
8 believe. And one of the things that has happened is
9 that we sort of place a moving target for industry in
10 terms of what is required of them from when they first
11 come to when they don't. So I'm going to go in with
12 Dr. Levy on this.

13 The industry -- I mean the Company met the
14 criteria that was given to them to meet to win
15 approval in terms of success rate. And so I think
16 that's the answer to your -- to question four. They
17 did what was asked of them to show that it works, and
18 that's what we ought to say. I think it probably
19 behooves the Company -- just as an aside for them, it
20 probably behooves them to find out what the heck
21 happened at those rates that are 43 and 25 percent,
22 just because it's going to make the machine look
23 better, the device look better, if there was something
24 that happened that can be explained and looked at and
25 studied. But I think they met the criteria.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

1 Go ahead. Shoot that down.

2 DR. D'AGOSTINO: Actually, I wanted to say
3 pretty much the same. It's not only that we agree
4 with the endpoint, but it's within the 20 percent and
5 so forth has been met. And even if my calculations
6 are correct, even if the remaining 21 individuals,
7 when the data finally comes in, it's not going to --
8 and they were all failures on the cryo, it's not going
9 to change within that 20 percent.

10 DR. BLANCO: So I think that probably
11 answers the question four. Gerry, any view? Anything
12 else?

13 DR. SHIRK: The statisticians say roll.
14 (Laughter.)

15 DR. BLANCO: All right. Then we're
16 rolling on.

17 Number five: Was the incidence of adverse
18 events in the treatment arm, e.g. pain, cramping, and
19 bleeding, acceptable? Please comment on **any**
20 additional information needed to better understand the
21 adverse events.

22 DR. LEVY: I really had no problem with
23 the adverse events. I think one of the nice things
24 about this is it demonstrated that there are
25 significant adverse events for the standard procedure,

1 including hyponatremia fluid overflow. And so I had
2 no problem with the adverse events in this trial.

3 DR. BLANCO: Any other comment? Well, the
4 only thing I would do, I mean I think we've often seen
5 procedures or devices that improve or lower the types
6 of serious adverse events that can happen at the cost
7 of maybe a little bit of extra pain. And I'm not
8 trying to minimize anybody's pain that has any type of
9 procedure, but it's better than hyponatremia or fluid
10 overload and everything else. I think the issue that
11 a manufacturer probably needs to address here is the
12 labeling and documentation so that there is an
13 expectation of the patient that reflects not just the
14 serious expected --

15 DR. LEVY: Right.

16 DR. BLANCO: -- adverse effects but that
17 a significant number of the patients will have some
18 level of pain. And I don't know whether it was
19 quantitated or not, I apologize. Maybe I should have
20 read it and would have found it, but I don't remember
21 that, some quantitation as to what adjective you can
22 put with that level of pain. But there will be some
23 pain to be expected and treated for that.

24 DR. LEVY: Right.

25 DR. BLANCO: Is that fair enough?

1 DR.' LEVY: Yes.

2 DR. BLANCO: Okay. Anything -- Diony?

3 MR. YOUNG: Yes. This isn't an adverse
4 event, but I didn't know when to bring it up.
5 Somewhere in the material it was noted that I think
6 four patients withdrew their consent to take part in
7 the study. And I would like to know why they withdrew
8 their consent? I'm sorry, I can't find the page right
9 now. I just wondered why? I mean all of the others
10 were loss to follow up, but then four withdrew their
11 consent.

12 DR. BLANCO: Yes, I don't know. They're
13 looking at me like they don't know the answer, so
14 maybe they can take a look at that. I don't know --
15 three? Do you know the -- I mean come to the
16 microphone, if you would.

17 DR. HEPPARD: Dr. Martha Heppard. There
18 were three patients who withdrew their consent.

19 DR. BLANCO: Do you know the reasons why,
20 since you're up there?

21 DR. HEPPARD: I do not know the reason
22 why, but I know it was not a significant issue. But
23 I don't know.

24 DR. BLANCO: Okay. And I'd like to point
25 out, Diony, that whenever -- I've done a lot of

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 research projects, and when you do research projects,
2 people will change their mind for, you know -- you
3 don't know. You don't necessarily know why. Oh, you
4 do have the information? Please.

5 MS. SHEA: Cheryl Shea, CryoGen. The
6 ladies just changed their mind. After going and
7 talking about with their husband, they just decided
8 they didn't want to participate. I mean that was one.
9 Another one, she was leaving the area. She decided
10 she couldn't participate. The third one, I don't
11 specifically remember. They just decided for one
12 reason or another that they did not want to
13 participate.

14 DR. BLANCO: Yes. I'm not great on math,
15 but I think it's like a two percent change. 'That's
16 really not, in my experience, just in doing research
17 projects, that's not that unusual.

18 All right. Anything else on number five?
19 We're just trucking.

20 DR. LEVY: Yes, but now we're going to get
21 bogged down.

22 DR. BLANCO: Okay. All right. Next one
23 is labeling, number six, and we've kind of already
24 done some work on this. And I think, actually, if I
25 can just make a general statement. I think this is a

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON. D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 major issue. I think that the labeling and the
2 physician labeling, physician instructions have a lot
3 of work from just what was in here that we read.

4 And then there's some issues, I think,
5 -with the patient. We brought in the issue of the
6 thinning of the endometrium, some mention of the
7 amenorrhea, PBAC score over 100, or the fact that this
8 does not -- this meets the criteria for lowering your
9 bleeding but not necessarily amenorrhea. The labeling
10 of the pain issue. Any others that come to mind?
11 Diony?

12 MR. YOUNG : Yes. Just some minor ones
13 with respect to the patient brochure. Just a question
14 of the reading level, a few words that I noticed that
15 I think could be considered to be more complicated
16 than they need to be, such as "efficacious" and
17 "alleviate" were a couple. So just to look at that.
18 There's a misspelling of the word "hemorrhage."

19 And just the other thing, the importance,
20 I think, of making sure that the information in the
21 patient brochure, when the labeling is changed for the
22 user's manual, that the information in the patient
23 brochure matches the information in the user's manual.

24 I think that those were the -- oh, no,
25 there was just one other thing that I suggested --

1 that I even noted that I think that the sponsor could
2 consider. There's a page in the patient brochure on
3 122 with illustrations, but nothing is labeled, and I
4 think that it would be helpful, at least to -- I mean
5 maybe it's sort of simplistic to say that the cervix
6 should be labeled "cervix," the uterus should be
7 labeled "uterus," and so on. But I think that when
8 these body parts are being referred to in the patient
9 brochure and you have an illustration, it would be a
10 good idea to have some of the basic parts of the
11 female anatomy. And then when the -- two of the
12 illustrations have got a probe in them, and that could
13 be identified as the cryoprobe.

14 DR. BLANCO: Dr. Janik?

1 5 DR. JANIK: In the patient brochure, I
16 don't see any mention of doing a pre-hysteroscopy or
17 sonography. It's present in the physician manual but
18 not in the patient. The only comment is to do a D&C
19 as a first surgical procedure. So I think that should
20 be added.

21 Also, in the first page, it says
22 cryoablation, to ablate or remove tissue. It really
23 isn't a removal. It's a destruction. I don't know if
24 that's a misleading word. That's my only two comments
25 on the patient side.

1 DR. BLANCO: Any other comments?

2 DR. O'SULLIVAN: Jorge?

3 DR. BLANCO: Dr. O'Sullivan?

4 DR. O'SULLIVAN: Yes, I have two comments.
5 On the first page -- I have three, actually, three
6 comments.. On the first page, 121, where it says,
7 "Your doctor may choose to give you medication to thin
8 your uterus," I mean since the medication that was
9 utilized was Lupron, it should say that that's what it
10 is, unless somebody wants to say that there are other
11 ones that work equally as well. But it should say
12 that.

13 And they already had such a patient in
14 this study, at least I saw it someplace, that a
15 patient who did get pregnant because she didn't pay
16 attention, so-called. It says here, "If you are not
17 pregnant and don't plan to have children."- You know,
18 we are in a changing time where women at 50 and 60 are
19 deciding to have children. So I would suggest that
20 this change, that "If you are not pregnant and don't
21 ever plan to have children." And it should be
22 repeated in several different places, because women
23 change their mind. And when, you know, you're having
24 sex, you're not thinking that way.

25 And, finally, on page 122, which is the

1 first time -- the second time you mention or quote a
2 patient, it says, "The First Option procedure was
3 painless. I've had not a period since." That is not
4 exactly true, that it was painless, number one. And
5 not everybody did not have a period since. In fact,
6 the number is really equal.

7 DR. BLANCO: And I was going to address --

8 DR. O'SULLIVAN: I think there's a problem
9 there.

10 DR. BLANCO: On 121, and they're quoting
11 patients, so I'm sure it was true for that patient,
12 and the one on 121, it was also true that it was
13 painless. But I think that may be-not consistent with
14 the findings of the overall study. Okay?

15 DR. O'SULLIVAN: No, this is clearly
16 trying to make the patient to go for it.

17 DR. LEVY: I think it's misleading.

18 DR. BLANCO: Okay.

19 DR. O'SULLIVAN: Very misleading.

20 DR. LEVY: And I think to quote patients
21 who have amenorrhea is misleading and not appropriate
22 in the patient brochure all.

23 DR. O'SULLIVAN: That's right.

24 DR. LEVY: I don't think that amenorrhea,
25 except as a complication -- I mean a patient should be

1 told that she may not have a period subsequent to a
2 procedure like this, but I think the data for this
3 device do not support a patient brochure that touts
4 the possibility of not -- or the probability of both
5 painlessness and not having a period. I think this
6 whole thing needs to be rewritten, because it's really
7 pushing a patient to do something whose results are
8 not documented by the data.

9 DR. BLANCO: Okay. Everybody wants to
10 talk, so let's just start over here.

11 DR. SHARTS-HOPKO: Okay. This may be a
12 broader issue, and it may not be appropriate to this .
13 particular patient labeling, but ACOG has standards
14 for decisionmaking, from most conservative treatment
15 to hysterectomy in the case of abnormal uterine
16 bleeding. And the first thing to consider is hormonal
17 intervention. So I think that while it is presented
18 as an option, it's not listed under who's probably
19 qualified for this procedure, and I don't know if it's
20 in our domain to say that it ought to be.

21 DR. BLANCO: All right. That's not where
22 I thought you were going. I'm not sure I understand
23 what you would like. What was your concern?

24 DR. SHARTS-HOPKO: Well, my concern is
25 that among the people who -- are you a candidate --

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234433

www.nealrgross.com

1 oh, candidate is spelled wrong, I just noticed too --
2 but are you a candidate --

3 DR. BLANCO: What page are you on, Nancy?

4 DR. SHARTS-HOPKO: Page 121 in the
5 stamped-on pages at the bottom.

6 DR. BLANCO: Right. Okay.

7 DR. SHARTS-HOPKO: Okay.

8 DR. BLANCO: Okay, I see. All right. Go
9 ahead.

10 DR. SHARTS-HOPKO: Are you a candidate?
11 Wouldn't you first have to fail out of hormonal
12 treatment or wouldn't that be desirable?

13 DR. BLANCO: Well, I don't think that
14 everybody -- I see Dr. Levy shaking her head no -- not
15 everybody, but I think most likely that's going to be
16 the way it's going to happen. But Barbara, do you
17 want to address that?

18 DR. LEVY: The way these patient brochures
19 are used, it's in conjunction with a clinical
20 encounter. I mean this isn't -- I wouldn't want to
21 see this in a magazine, for example. But as a
22 brochure to be used in conjunction with a physician's
23 advice, endometrial ablation or destruction of tissue
24 is an option for the treatment for abnormal uterine
25 bleeding. There are quite a few patients who are not

1 candidates for medical management --

2 DR. SHARTS-HOPKO: Right.

3 DR. LEVY: -- for one reason or another.
4 They don't necessarily have to have failed it. so
5 just like when I hand a patient a brochure for an IUD
6 or for something else, that's within the context of
7 the clinical interaction.

8 On the other hand, sometimes these things
9 are used in the lay press --

10 DR. SHARTS-HOPKO: Right.

11 DR. LEVY: -- for magazine advertisements,
12 other things. And I think the standard for what
13 should be in an advertisement for the lay press is
14 different than the standard for what we need to have
15 in a patient brochure to be in the clinical context.

16 DR. O'SULLIVAN: Even the name, First
17 Option, is a little bit misleading.

18 DR. BLANCO: Well, I'm glad -- that's
19 where I thought you were going, because I was going to
20 bring that up. I'm not terribly happy about the name
21 First Option. I don't know what influence we may or
22 may not have, but -- it's nice, but it really isn't --
23 this isn't -- on most patients this would not be the
24 first option that would be used for this. So I would
25 just throw that out.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 Okay. Any other comments? Oh, yes. All
2 right. We'll start on this side.

3 DR. DIAMOND: Again, page 121, where it
4 talks about thinning a uterus, really I think in these
5 cases the medication being given to thin the
6 endometrium or the lining of the uterus as opposed to
7 the whole uterus itself.

8 Also the question was brought up about
9 using Lupron. My bet is when this trial started only
10 the agonists were available in this country. Now,
11 with the antagonists available, my bet is that they
12 may become the treatment of choice for thinning the ,
13 endometrium and that you'll have a greater length of
14 -- you won't have an agonistic component. So I would
15 not probably prefer to see a specific medication
16 listed.

17 DR. BLANCO: I think there is just -- for
18 the FDA's benefit, there was a lot of agreement that
19 I heard over here, in case it didn't go over on the
20 microphone. All right.

21 Comments over here? All right, good.

22 DR. SHIRK: On page 124, it says,
23 "Clinical data to date for cryoablation has shown that
24 less than eight percent of patients may be required to
25 do additional treatment." You've got over a 12

1 percent failure rate. I don't know where you came up
2 with the number of eight percent or how that's
3 relevant, but certainly with your failure rate being
4 12 percent, 12 percent would at least be a number that
5 you would have to put down, and it would probably be
6 higher than that. So I think that that statement
7 probably needs to be erased or --

8 DR. LEVY: And to piggyback on that,
9 Gerry, just if I could, what you're really commenting
10 on is repeat surgical management. And in fact many
11 patients may still require medical management in
12 addition to this ablation procedure. So I think it's
13 misleading, because in our minds we know what we're
14 talking about when we talk about additional treatment.
15 But to a patient, medication, having to take a pill is
16 additional treatment. So I think that whole statement
17 is misleading.

18 DR. BLANCO: Yes. Not only that, if you
19 look at -- this is one of the points I was going to
20 make -- and if you look at 125 when you talk about
21 other techniques, you quote the 85 percent success
22 rate, okay? So I think you need to be consistent in
23 what rates you're quoting. to folks and not in one
24 place quote the resurgery rate and in the other quote
25 the failure rate.

1 All right. Well, let's have Cindy. She
2 hasn't said as much as Diony, so we'll give you a
3 chance.

4 MS. DOMECUS: A few comments on page 120
5 of the patient brochure. It says, "This cryosurgical
6 procedure represents a more convenient, cost-
7 effective, and clinically efficacious alternative to
8 traditional treatments." And that to me is a claim of
9 superiority, and the study designed and the data, I
10 think, support equivalence not superiority.

11 On page 125, in the quick summary here, it
12 says, "Minimal or no need for general anesthesia." I
13 think about half of the patients still require general
14 anesthesia, so I think that's misleading to say
15 minimal or no general anesthesia.

16 And also it says, "A fast recovery,
17 usually only a day," and I didn't see any data in the
18 PMA on recovery times. Maybe it exists, but I didn't
19 see it in 'the PMA. so I think that's an
20 overstatement, or at least not based on data at this
21 point.

22 DR. BLANCO: All right. Diony?

23 MR. YOUNG: Yes. Also on page 125, it
24 says that 95 percent of patients report satisfaction
25 in the overall results. I recall that the sponsor

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 told us it was 94 percent, or 94 point -- I don't know
2 whether there was a point. But anyway, that should be
3 accurate.

4 DR. BLANCO: All right. Dr. Schultz?

5 DR. SCHULTZ: I can see that you guys are
6 having a good time with this, but maybe I could
7 shortcut this whole thing by saying that in the event
8 of an approval decision, we will go through an
9 extensive de-fluffing procedure for this label as we
10 do with every other label.

11 (Laughter.)

12 You can count on that. And basically the
13 recommendation that I'm hearing is that you want the
14 label to be objective, balanced, talk about
15 alternatives in a reasonable manner, and do it in a
16 way that accurately reflects the data that was
17 presented in the clinical trial. Is that a fair
18 assessment?

19 DR. LEVY: Yes.

20 DR. SCHULTZ: Okay. Thank you. Now, if
21 you want to continue, by all means, go.

22 (Laughter.)

23 DR. BLANCO: You just don't want us to
24 have any fun.

25 DR. SCHULTZ: I do.

1 DR. BLANCO: All right. Any other
2 comments that anyone else wants to make on this before
3 we move on?

4 All right. Let's go -- move on to the --
5 all right. There are two others. Before we move out
6 of -- okay. you have some comments on the user
7 manual?

8 DR. JANIK: Yes. On the user manual, on
9 144, it says, "When using abdominal ultrasound
10 guidance, the bladder should be full," implying that
11 that's an option thing to do. Maybe it's just the way
12 the sentence construction is, but it makes it seem
13 like ultrasound is not a necessity. And also my
14 concerns that I've raised before, that in the user
15 manual the emphasis on ultrasound is extremely weak.
16 I think there needs to be clarification of minimal
17 training ability and that ultrasound is a requirement.

18 Is it possible to use transvaginal
19 ultrasound with this? Have any of you tried it? No?
20 No room? Okay, I thought so. Okay.

21 DR. BLANCO: All right. Any other
22 comments on the labeling? There were two issues that
23 were not in here that the FDA would like some comments
24 on. And that was the -- the first issue was the issue
25 of anesthesia, and I think we've already kind of

1 addressed that a little bit. And we're, I think --
2 and Barbara or anyone else, make sure I say this right
3 -- but I think we have concerns, since the study was
4 not designed to look at anesthesia needs, to make any
5 kind of indication or claim or statement about that.
6 Is that fair enough or do you want to get a little
7 stronger?

8 DR. SHIRK: The other inference is that
9 the general anesthesia is more hazardous than just
10 office -- the local anesthesia. I don't think you can
11 make that statement.

12 DR. LEVY: Yes. I just think that any
13 reference to anesthesia just needs to be taken out of
14 everything.

15 DR. BLANCO: Okay. That's pretty
16 straightforward. Any other comments?

17 And then the other issue was the issue of
18 antibiotics, which really hasn't been addressed
19 anywhere. And is antibiotic prophylaxis needed or not
20 needed? Should it be labeled? Should it be
21 recommended? Any comments?

22 DR. LEVY: I don't think we have
23 sufficient data to **support** or refute that one way or
24 the other. The clinical judgment of the physician
25 involved was used half the time anyway. I don't think

1 we've seen stratification on the data to say who got
2 an infection, who didn't, what were the clinical
3 situations involved with that? What was the
4 definition of an infection? How is it -- you know,
5 was it defined the same way? Certainly the
6 cryopatients are going to have more discharge or may
7 have more discharge. Was that the -- so I don't think
8 I have enough data to say one way or the other.

9 I'd be very uncomfortable making any sort
10 of recommendation, given what we have. We had equal
11 numbers of, quote, "infections, unquote", in the two
12 arms of the study -- five percent in both sides. We
13 had 50/50 antibiotic use. I have no idea what to make
14 out of that.

15 DR. BLANCO: Okay. Anybody else wants to
16 make a comment? All right. So not enough information
17 to be able to answer appropriately.

18 All right. Let's move on to number seven,
19 training program. Please identify aspects of
20 physician training which you believe are important --
21 patient selection, patient counseling, risk to
22 pregnancy, duration, number of freezes --

23 DR. MITCHELL: Excuse me.

24 DR. BLANCO: Yes. You're excused. Go
25 ahead.

1 DR. MITCHELL: Diane Mitchell. There were
2 two other questions that I asked to be discussed. One
3 was the contraindications, because we have the
4 indications and --

5 DR. BLANCO: In all fairness to Dr.
6 Harvey, she brought them up, but I didn't realize that
7 you really wanted them discussed. So go ahead.

8 DR. MITCHELL: Just to remind you when
9 you're looking at the contraindications about the size
10 of the uterus. And then the other one that I
11 mentioned was the dilation issue, which I think is
12 mentioned in the patient pamphlet.

13 DR. BLANCO: All right. Well, let's go
14 back. why don't you go back to the indications.
15 Let's tackle that one first. I think we can all read
16 it or we've already read it. Any comments on that?
17 I think, Dr. O'Sullivan, you had some comments about
18 childbearing. You want to change that on here or make
19 any suggestions?

20 DR. O'SULLIVAN: Well, I think it should
21 be clearly stated that patients with planned future
22 pregnancy -- they should be cautioned not planned,
23 because most pregnancies are not planned no matter
24 what anybody says. But they should be made aware of
25 that fact that if they do get pregnant, there can be

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 risks, as far as we know, to the pregnancy.

2 DR. BLANCO: All right. That's more a
3 labeling issue than an indication issue. I think you
4

5 DR. O'SULLIVAN: That's a labeling issue.
6 Indication issue, let me just re-read it.

7 DR. BLANCO: You're okay with the way this
8 is worded?

9 DR. O'SULLIVAN: Let me just re-read it.

10 DR. BLANCO: Anyone else?

11 DR. DIAMOND: I have a different issue,
12 which is going back to -- thinking about, again, of
13 the draft document, one of the questions was who
14 should be performing this procedure. In view of the
15 concern potentially for needing to dilate the cervix,
16 concern for potentially perforating, being able to
17 recognize it when it happens, treat those
18 complications that occurs, I would think this should
19 a procedure and technique that at least at this point
20 is limited to use by a physician and a physician
21 familiar with conducting --

22 DR. LEVY: Uterine surgery.

23 DR. DIAMOND: -- D&Cs hysteroscopies.

24 DR. BLANCO: Okay. So as part of -- this
25 actually hits on the training in terms of the way --

1 who should be able to do it and also to some extent
2 ultrasound. Someone has to be able to read the
3 ultrasound and know what they're seeing.

4 DR. DIAMOND: Right. Yes. Well, the
5 physician knows that or in the presence of someone
6 else who does, yes.

7 DR. BLANCO: Okay. Dr. Levy?

8 DR. LEVY: Okay. In terms of indication
9 for usage, we don't have anything up there right at
10 the moment in terms of size of the uterus. So looking
11 at indications for usage, right there you could have
12 a 16-week size uterus with a benign cause of bleeding,
13 which is fibroids. We don't really say, but we really
14 need to say that it's in a relatively normal size
15 uterus or uteri ten weeks size or smaller. Certainly
16 the study only documents efficacy or effectiveness in
17 people with a ten centimeter or smaller. So I think
18 we have to clarify that.

19 I still have a concern, though -- we talk
20 about benign causes of bleeding. Does that mean that
21 a patient with large submucous myoma would qualify for
22 this? It's unclear to me from looking at the data,
23 because I don't have the raw data, how many patients
24 in this study actually had structural abnormalities
25 that were appropriately managed or that were well

1 managed. is that part of the failure that we're
2 seeing in some of the other studies?

3 I mean I'm very comfortable saying benign
4 causes of bleeding, but I'm very uncomfortable with
5 the concept that we're mixing structural abnormalities
6 with other abnormalities in the bleeding, and I'm not
7 sure what to do with that, except to say that we
8 definitely need to restrict the size of the uterus in
9 this and that --

10 DR. SCHULTZ: Sorry. I just have
11 clarification. This is Dan Schultz. I think one of
12 the concerns was both the upper end and the lower end.
13 Does the Panel want to make any recommendations? And
14 we can do this either in terms of the indications or
15 in terms of contraindications, warnings, precautions.
16 We can do it on both sides. And if you tell us what
17 your concerns are, I think we can work with the
18 Company to fashion the appropriate label. But I think
19 there was -- I heard discussion of both an upper limit
20 and a lower limit, so you may want to give us a little
21 help there.

22 DR. BLANCO: Go ahead, Dr. Shirk.

23 DR. SHIRK: Well, my question would be,
24 obviously, when we set up the initial protocol for the
25 PMAs, that things like fibroids, polyps were

1 restricted for these procedures. I guess my question
2 would be is it appropriate now to include those,
3 including polyps, which may need to be removed, not
4 knowing whether they're benign or malignant? And also
5 is it fair to other companies that are going through
6 the same process to suddenly grant this special
7 dispensation for, quote, unquote, "all benign
8 pathology?"

9 DR. BLANCO: Well, go back to the other
10 one. That's why I had them put up the
11 contraindications, because I guess we're talking about
12 C, and so do you want to be more specific? I guess it
13 just says weakness. It doesn't really address the
14 fibroid.

15 DR. LEVY: And it's talking about having
16 had a previous myomectomy. It's not talking about
17 having fibroids now.

18 DR. JANIK: My understanding with your
19 study is they were all pre-screened with either
20 hysteroscopy or ultrasound. And if they had
21 interuterine lesions, they weren't included. Am I
22 correct? So if that's the case, it should be listed
23 that this is lacking interuterine pathology,

24 DR. LEVY: Right.

25 DR. BLANCO: Yes. I think they can work

1 on the wording issues. You know, if they're having
2 abnormal bleeding, that may be called pathology. So
3 the issue is other things.

4 DR. JANIK: Structural pathology.

5 DR. BLANCO: Right. Thank you. Okay.

6 DR. LEVY: And they need to be pre-
7 screened.

8 DR. BLANCO: All right. Any other
9 comments? All right. These are the
10 contraindications, and the size is on here, so I'll
11 wait to -- on the next slide, so I'll wait to address
12 it when we get there, on F, okay?

13 So let's go ahead and start with A. Any
14 other contraindications that we need to talk about?
15 and I guess my issue was, and maybe I didn't read the
16 protocol in enough detail, but my understanding of the
17 protocol was that all C-sections were excluded, and
18 here I see classical and in the results I saw
19 classical.

20 so I just wondered what was the original
21 inclusion/exclusion criteria in the study, and were
22 any patients with a low cervical transverse incision
23 done? Were they treated? And you don't have to
24 answer now because you may not know the data, but I
25 would say that we need to be consistent. So if there

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 2344433

www.nealrgross.com

1 were no patients treated with prior C-sections and
2 that was an exclusion criteria for the study, then it
3 shouldn't just be prior classical, it should be all C-
4 sections.

5 Any other comments on any of these three?
6 Dr. Diamond?

7 DR. DIAMOND: Another question I would
8 raise, although I don't the answer, is what about
9 uterine anomalies. If you do have a unicornua uterus
10 or bicornua uterus, how is that going to affect this
11 process in efficacy as well as safety?

12 DR. BLANCO: Well, I think with the issue
13 of the structural abnormalities --

14 DR. JANI: Structural.

15 DR. BLANCO: -- pretty much is going to
16 wipe those out. And what about on B, it says, "A
17 patient with known or suspected endometrial carcinoma
18 or premalignant change of the endometrium, such as
19 unresolved abnormal hyperplasia." Again, it's going
20 back to the study and design. I believe they had an
21 endometrial biopsy, if I'm not mistaken. And if
22 that's the case, does this wording -- shouldn't this
23 wording be a little bit stronger in terms of the
24 documentation, that we don't have these problems?

25 DR. LEVY: I mean, basically, didn't they